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1984 Joint Association Survey

On Drilling Costs

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- American Petroleum Institute
- Independent Petroleum Association of America
- Mid-Continent Oil & Gas Association

American Petroleum Institute
1220 L Street, Northwest
Washington, D.C. 20005

1984 Joint Association Survey On Drilling Costs

Statistics Department

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PREFACE

The purpose of the Joint Association Survey is to provide annual information pertaining to the cost of drilling oil and gas wells and dry holes in the United States.

As in prior years, data for the 1984 JAS were collected from the petroleum industry through the joint efforts of the American Petroleum Institute, the Independent Petroleum Association of America, and the Mid-Continent Oil and Gas Association.

Washington, D.C.
December 1985

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JOINT ASSOCIATION SURVEY
ON DRILLING COSTS--1984

SUMMARY OF FINDINGS. Findings pertaining to 1984 drilling costs and activity in the United States may be summarized as follows:

- The total cost of drilling and equipping oil and gas wells and dry holes in 1984 amounted to approximately $25,206 million, an increase of 0.4 per cent from 1983.

- The average depth of oil wells completed in 1984 was 3,952 feet, an increase of 1.2 per cent; the average cost per foot in 1984 was $66.32, a decrease of 8.7 per cent from the previous year.

- The average depth of gas wells completed in 1984 was 5,516 feet, a decrease of 1.7 per cent; the average cost per foot in 1984 was $88.80, a decrease of 18.1 per cent from the previous year.

- The average depth of dry holes drilled in 1984 was 4,900 feet, an increase of 5.8 per cent; the average cost per foot was $67.18, a decrease of 15.1 per cent from 1983.

- The total number of wells drilled in 1984 increased 14.3 per cent and the total footage drilled increased 16.4 per cent.

- The total cost of offshore wells completed in 1984 amounted to approximately $5,024 million, an increase of 1.3 per cent from 1983. The total number of offshore wells increased 11.9 per cent from 1983 while the average depth decreased 0.7 per cent. The average cost per foot in 1984 was $352.33, a decrease of 8.9 per cent.

- The comparison of drilling activity and the cost of various types of wells completed in 1983 and 1984 is as follows:

	Oil Wells		Gas Wells	
	1983	1984	1983	1984
Wells Drilled	33,485	38,976	12,919	14,983
Footage Drilled (000)	130,824	154,018	72,487	82,644
Total Cost (millions)*	$9,504	$10,214	$7,856	$7,339
Average Depth (feet)	3,907	3,952	5,611	5,516
Average Cost Per Well*	$283,821	$262,065	$608,078	$489,808
Average Cost Per Foot*	$72.65	$66.32	$108.37	$88.80

	Dry Holes		Total Wells	
	1983	1984	1983	1984
Wells Drilled	21,132	23,251	67,536	77,210
Footage Drilled (000)	97,915	113,927	301,226	350,589
Total Cost (millions)*	$7,745	$7,653	$25,105	$25,206
Average Depth (feet)	4,633	4,900	4,460	4,541
Average Cost Per Well*	$366,507	$329,155	$371,721	$326,463
Average Cost Per Foot*	$79.10	$67.18	$83.34	$71.90

*Includes all costs incurred for drilling and equipping wells through the "Christmas tree."
NOTE: Totals may not agree with the sum of the individual items because of independent rounding.

DESCRIPTION OF SURVEY. The 1984 Joint Association Survey (JAS) contains information on drilling costs derived from a sample of wells, footage, and costs collected from operators of different sizes who drilled wells in various areas of the United States. The drilling costs reported are those incurred for drilling and equipping wells through the "Christmas tree."

Estimates of drilling costs were derived by combining sample data with the 1984 drilling statistics as compiled by the American Petroleum Institute (API) and the Committee on Statistics of Drilling of the American Association of Petroleum Geologists (AAPG-CSD). The procedures for preparing these estimates for the 1984 JAS are described in the following sections.

DEFINITIONS. Copies of the 1984 questionnaire, instructions, and definitions may be found in Appendices A and B. Maps showing geographic subdivisions of Alaska, California, Louisiana, New Mexico, Texas, Offshore Federal Waters Alaska, Offshore Federal Waters Atlantic Coast, Offshore Federal Waters Gulf of Mexico-Northern, and Offshore Federal Waters Pacific Coast are shown in Appendix G.

The 1984 UNIVERSE. In 1984 the API and the AAPG-CSD reported a total of 82,032 oil and gas wells and dry holes.* It was necessary to adjust the data reported in the API Quarterly Review of Drilling Statistics (QRDS) as follows:

1. Adjustments Type I (Net). Adjustments of this type represent:

   a. The elimination of old wells drilled deeper (and corresponding footage).

   b. The elimination of wells completed in 1983 or prior years (and corresponding footage), but reported in the QRDS in 1984.

   c. The elimination of sidetracked (bypassed) and redrill footage.

   d. The inclusion of wells completed in 1984, but not reported in the QRDS until 1985.

2. Adjustments Type II (Net). Total adjustments of this type represent:

   a. The elimination of wells previously reported in the 1983 JAS.

   b. The inclusion of wells not reported in the QRDS but reported and confirmed by JAS respondents as actually drilled in 1984.

The adjustment of published data as outlined above resulted in a total of 77,210 oil and gas wells and dry holes (representing 350,588,726 feet) which constituted the drilling universe used for estimating total expenditures for 1984. (See Appendix C.)

*See API Quarterly Review of Drilling Statistics, Vol. XVIII, No. 4, February 1985, pp. 14-19.

THE 1984 SAMPLE. As in previous years, questionnaires were mailed to operators which were recorded as having drilled wells in the different areas of the United States during 1984. Replies to the Survey were contingent upon voluntary responses, with a continued effort being made to increase the sample size, particularly with respect to the smaller operators. An analysis of the number of companies (operators), classified by the number of wells drilled, included in the sample for the years 1980-1984 is shown in Appendix F.

The number of oil wells, gas wells, and dry holes reported to the JAS in 1983 and 1984 as percentages of total wells drilled in each of the six selected states is as follows:

	Per Cent of Total					
	Oil Wells		Gas Wells		Dry Holes	
	1983	1984	1983	1984	1983	1984
California	84	82	76	78	67	55
Kansas	26	27	40	29	32	31
Louisiana	32	21	35	37	40	35
New Mexico	66	49	74	67	52	52
Oklahoma	24	21	31	23	29	26
Texas	37	33	43	37	26	23

The following tabulation shows the total number of wells and footage reported to the JAS in 1983 and 1984 as compared to the wells and footage which comprised the JAS drilling universe for these two years.

	1983 Survey			1984 Survey		
	Total	Sample	Per Cent of Total	Total	Sample	Per Cent of Total
Oil Wells	33,485	11,979	35.8	38,976	12,693	32.6
Footage (thousands)	130,824	58,866	45.0	154,018	62,143	40.3
Total Cost (millions)	$9,504	$5,289	55.7	$10,214	$5,059	49.5
Gas Wells	12,919	4,468	34.6	14,983	4,305	28.7
Footage (thousands)	72,487	31,759	43.8	82,644	29,859	36.1
Total Cost (millions)	$7,856	$4,402	56.0	$7,339	$3,707	50.5
Dry Holes	21,132	6,191	29.3	23,251	6,445	27.7
Footage (thousands)	97,915	39,845	40.7	113,927	42,633	37.4
Total Cost (millions)	$7,745	$4,650	60.0	$7,653	$4,177	54.6
Total Wells	67,536	22,638	33.5	77,210	23,443	30.4
Footage (thousands)	301,226	130,471	43.3	350,589	134,634	38.4
Total Cost (millions)	$25,105	$14,341	57.1	$25,206	$12,943	51.3

NOTE: Totals may not agree with the sum of the individual items because of independent rounding.

DETERMINATION OF UNREPORTED WELLS AND FOOTAGE. Individual wells (and footage) derived by adjustment of QRDS data were classified according to type of well (oil, gas or dry), location, and depth. Individual wells reported to the JAS were classified in like manner. The wells and footage reported to the JAS in each category were subtracted from the number of wells and footage in corresponding categories for the adjusted universe. The difference represented the unreported wells and footage by type of well, location, and depth interval.

ESTIMATION OF TOTAL COSTS. The average cost per foot drilled in each category was computed on the basis of information reported to the JAS. Based on the sample wells reported for each area, least squares regression analysis was used to determine the functional relationship between the cost per foot and well depth for each type of well. (See Appendix H for a description of the methodology.)

The cost per foot for the unreported wells in each category was then estimated from the least squares analysis for each area. For the relatively few unreported wells falling outside the depth range of the sample, for which regression analysis did not provide meaningful estimates, cost estimates were based on an analysis of costs in similar areas and of prior years' data. This was necessary for approximately 2.9 per cent of all unreported wells.

The cost per foot for the unreported wells was then multiplied by the unreported footage in each depth range to obtain the unreported cost for each category. Total estimated expenditures were obtained by adding the reported costs to estimated unreported costs.

FINDINGS FOR 1984. Cost data are shown in Tables 1-53 for the Total United States, Total Onshore United States, and Total Offshore United States as well as for Offshore Federal Waters and Gulf of Mexico--Northern.

Those wells drilled in the Atlantic Coast Federal Waters, Alaska Federal Waters, and Pacific Coast Federal Waters are not shown separately to avoid disclosure of proprietary data, but are included in Table 52, "Offshore Federal Waters" on page 58. However, total wells, footage, and costs for these areas are shown in Table 1.

In addition, expenditures are reported for the individual states and for the subdivisions of Alaska, California, Louisiana, New Mexico, and Texas.

SUMMARY OF SAMPLE DATA FOR 1984. Additional information concerning the cost of exploratory, development, single completion, and multiple completion wells as reported to the Joint Association Survey is summarized for the United States in Appendices D and E.

Sample data in these four categories, summarized by depth intervals for individual states, may be purchased from the American Petroleum Institute on magnetic tape or in the form of a computer listing. Data in either format are summarized to the extent necessary to avoid disclosure of individual well costs.

Requests for price quotations should be directed to the Statistics Department, Office of the Director, American Petroleum Institute, 1220 L Street, Northwest, Washington, D.C. 20005. (Note: Orders will be accepted only for the complete summary.)

TABLES CONTAINING FINDINGS

Please note that the average depth and cost per well have not been rounded upward on the following tables.

TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND ESTIMATED DRILLING

Table 1

STATE	OIL WELLS			GAS WELLS		
	WELLS DRILLED	TOTAL FOOTAGE	COST	WELLS DRILLED	TOTAL FOOTAGE	COST
ALABAMA ***	27	224,129	26,418,116	145	541,889	86,957,477
ALASKA - ONSHORE	151	1,299,405	357,041,585	1	8,232	6,412,597
ALASKA - OFFSHORE	4	44,773	16,557,994	--	--	--
ALASKA - TOTAL	155	1,344,178	373,599,579	1	8,232	6,412,597
ARKANSAS	284	1,135,072	41,478,119	215	1,198,085	98,751,388
CALIFORNIA - NORTH	4	13,774	1,231,523	80	550,126	55,625,208
CALIFORNIA -CENTRAL COASTAL	136	553,402	82,742,446	2	11,670	1,307,085
CALIFORNIA - EAST CENTRAL	2,680	4,594,423	414,921,340	16	182,131	18,059,637
CALIFORNIA - SOUTH	90	358,123	45,753,594	1	9,559	2,877,765
CALIFORNIA - OFFSHORE	112	651,017	139,267,339	3	33,756	11,096,469
CALIFORNIA - TOTAL	3,022	6,170,739	683,916,244	102	787,242	88,966,164
COLORADO	664	4,380,134	299,688,334	454	2,567,477	134,695,017
FLORIDA	10	137,625	21,831,434	--	--	--
ILLINOIS	1,542	4,072,749	162,413,943	37	23,913	751,595
INDIANA	402	724,178	24,213,796	20	26,774	1,668,992
KANSAS	2,640	9,013,757	308,195,796	363	1,442,093	64,101,663
KENTUCKY	1,483	1,868,019	56,437,458	281	626,250	37,150,866
LOUISIANA - NORTH	2,409	4,516,119	179,670,973	639	2,636,557	184,308,597
LOUISIANA - SOUTH	435	3,481,981	406,316,251	256	2,996,454	472,701,363
LOUISIANA - OFFSHORE	343	3,393,755	1,010,247,277	282	2,807,557	914,799,180
LOUISIANA - TOTAL	3,187	11,391,805	1,596,234,501	1,177	8,440,568	1,571,809,140
MICHIGAN	348	1,505,714	94,620,744	69	344,492	28,371,055
MISSISSIPPI	168	1,431,558	96,031,017	51	519,866	81,356,106
MONTANA	384	2,006,016	133,828,138	107	171,909	6,938,409
NEBRASKA	130	616,544	22,996,199	5	19,131	513,766
NEW MEXICO - EAST	677	3,959,150	257,161,322	166	1,319,194	109,013,472
NEW MEXICO - WEST	205	1,260,773	75,754,467	268	1,620,400	92,526,574
NEW MEXICO - TOTAL	882	5,249,923	332,915,809	434	2,939,594	201,540,046
NORTH DAKOTA	359	3,358,009	283,075,484	4	30,549	4,107,428
OKLAHOMA	4,742	20,420,829	1,151,331,181	1,748	11,257,883	939,297,407
TEXAS RRC DIST. 1	2,275	4,875,071	202,750,619	98	673,602	61,032,242
TEXAS RRC DIST. 2	142	833,411	51,185,070	249	1,733,198	165,197,693
TEXAS RRC DIST. 3	1,099	7,899,147	584,034,361	344	3,165,438	388,812,521
TEXAS RRC DIST. 4	213	1,260,828	63,113,684	692	6,149,886	739,893,170
TEXAS RRC DIST. 5	180	544,621	35,472,625	131	1,412,257	163,714,143
TEXAS RRC DIST. 6	447	2,548,972	158,655,470	318	2,947,965	310,273,969
TEXAS RRC DIST. 7B	2,126	6,574,141	248,886,930	625	2,133,182	85,747,765
TEXAS RRC DIST. 7C	1,168	6,779,194	342,374,705	293	1,818,689	72,854,094
TEXAS RRC DIST. 8	2,593	14,301,219	873,418,556	91	780,434	125,003,956
TEXAS RRC DIST. 8A	1,721	9,861,922	488,240,527	15	81,017	4,865,642
TEXAS RRC DIST. 9	1,989	6,677,189	275,645,116	215	1,204,563	63,277,630
TEXAS RRC DIST. 10	891	3,906,695	226,650,100	225	1,891,694	171,272,716
TEXAS - OFFSHORE	20	217,963	103,036,869	82	887,064	342,902,537
TEXAS - TOTAL	14,864	66,280,373	3,653,464,632	3,358	24,879,039	2,754,848,078
UTAH	235	1,773,803	209,308,116	74	454,732	93,689,645
WYOMING	831	5,332,404	398,375,376	129	1,276,311	224,751,977
APPALACHIAN*	2,477	5,172,018	170,547,296	6,065	24,610,043	881,516,066
OFFSHORE FED. - ALASKA	--	--	--	--	--	--
OFFSHORE FED. - ATLANTIC	--	--	--	--	--	--
OFFSHORE FED. - GULF NORTH	6	68,480	44,144,707	3	17,358	4,752,027
OFFSHORE FED. - PACIFIC	1	5,800	9,203,900	--	--	--
OFFSHORE FED - TOTAL	7	74,280	53,348,607	3	17,358	4,752,027
OTHER UNITED STATES**	127	333,682	19,969,867	141	460,734	25,839,259
TOTAL OFFSHORE ***	486	4,381,788	1,322,458,086	372	3,787,589	1,352,636,113
TOTAL ONSHORE	38,490	149,635,770	8,891,781,702	14,611	78,856,579	5,986,152,055
TOTAL U.S.	38,976	154,017,558	10,214,239,788	14,983	82,644,168	7,338,788,168
EXPLORATORY WELLS	2,312	12,893,298	1,032,819,926	1,548	10,243,622	1,391,529,462
DEVELOPMENT WELLS	36,664	141,124,260	9,181,419,862	13,435	72,400,546	5,947,258,706

* Includes New York, Ohio, Pennsylvania and West Virginia.

** Includes Arizona, Georgia, Idaho, Missouri, Nevada, Oregon, South Dakota, Tennessee, and Virginia.

*** Includes two gas wells for Alabama Offshore.

COSTS FOR OIL AND GAS WELLS, AND DRY HOLES, BY STATE - 1984

Table 1

DRY HOLES			TOTAL WELLS			
WELLS DRILLED	TOTAL FOOTAGE	COST	WELLS DRILLED	TOTAL FOOTAGE	COST	STATE
189	1,066,255	60,260,223	361	1,832,273	173,635,816	ALABAMA ***
4	43,488	65,941,659	156	1,351,125	429,395,871	ALASKA - ONSHORE
2	16,924	13,404,167	6	61,697	30,022,161	ALASKA - OFFSHORE
6	60,412	79,405,826	162	1,412,822	459,418,032	ALASKA - TOTAL
354	1,773,170	54,532,204	853	4,106,327	194,761,711	ARKANSAS
134	634,566	56,673,365	215	1,448,488	113,730,096	CALIFORNIA - NORTH
26	152,147	36,236,523	164	717,219	120,286,056	CALIFORNIA -CENTRAL COASTAL
119	704,918	63,366,735	2,815	5,481,472	496,347,712	CALIFORNIA - EAST CENTRAL
9	75,010	27,665,803	100	442,692	76,297,162	CALIFORNIA - SOUTH
13	147,365	133,461,202	126	831,838	283,845,010	CALIFORNIA - OFFSHORE
301	1,963,728	317,623,628	3,425	8,921,709	1,090,506,036	CALIFORNIA - TOTAL
635	3,476,599	122,914,785	1,753	10,424,210	557,298,136	COLORADO
12	160,009	12,352,707	22	297,634	34,214,141	FLORIDA*
1,023	2,546,766	52,545,754	2,602	6,643,468	215,711,292	ILLINOIS
477	936,803	18,251,557	899	1,687,759	44,134,347	INDIANA
3,025	11,638,981	214,454,105	6,028	22,094,831	586,751,564	KANSAS
1,404	1,994,757	43,925,855	3,168	4,489,046	137,514,179	KENTUCKY
1,221	4,545,691	110,960,924	4,269	11,701,367	474,940,494	LOUISIANA - NORTH
741	8,098,714	753,831,281	1,432	14,577,099	1,632,848,895	LOUISIANA - SOUTH
354	3,747,751	1,023,001,226	979	9,949,063	2,948,047,683	LOUISIANA - OFFSHORE
2,316	16,395,156	1,887,793,431	6,680	36,227,529	5,055,837,072	LOUISIANA - TOTAL
608	3,067,131	131,604,691	1,025	4,917,337	254,596,490	MICHIGAN
392	3,159,069	123,656,639	611	5,110,493	301,045,762	MISSISSIPPI
299	1,708,736	122,973,871	790	3,886,661	263,740,418	MONTANA
207	1,055,912	19,391,182	348	1,691,587	42,901,147	NEBRASKA
211	1,397,674	93,721,711	1,054	6,706,015	459,896,505	NEW MEXICO - EAST
40	141,085	15,414,379	513	3,022,258	133,695,940	NEW MEXICO - WEST
251	1,538,759	109,136,590	1,567	9,728,276	643,592,445	NEW MEXICO - TOTAL
321	2,655,313	134,711,621	684	6,043,871	421,894,533	NORTH DAKOTA
2,466	12,572,407	704,591,634	6,976	44,251,119	2,795,220,222	OKLAHOMA
431	1,535,061	64,381,541	2,804	7,083,734	328,164,402	TEXAS RRC DIST. 1
291	1,891,039	113,775,411	682	4,457,648	330,158,174	TEXAS RRC DIST. 2
671	5,301,024	374,853,602	2,114	16,365,609	1,347,700,484	TEXAS RRC DIST. 3
511	3,755,033	267,429,597	1,416	11,165,747	1,070,436,451	TEXAS RRC DIST. 4
200	1,110,265	53,170,830	511	3,067,173	272,357,598	TEXAS RRC DIST. 5
312	2,145,918	123,862,936	1,077	7,642,855	592,792,373	TEXAS RRC DIST. 6
2,126	6,098,806	137,191,670	4,877	14,806,129	471,826,365	TEXAS RRC DIST. 7B
435	2,016,730	69,667,048	1,366	10,614,613	434,895,647	TEXAS RRC DIST. 7C
327	2,433,105	146,980,865	3,001	17,514,758	1,145,403,377	TEXAS RRC DIST. 8
398	2,766,382	100,804,087	2,134	12,709,321	593,910,256	TEXAS RRC DIST. 8A
1,451	5,229,401	127,466,242	3,655	13,111,153	466,388,988	TEXAS RRC DIST. 9
193	1,517,460	75,607,175	1,309	7,315,649	473,529,991	TEXAS RRC DIST. 10
124	1,390,515	531,006,684	226	2,495,562	1,016,946,090	TEXAS - OFFSHORE
7,470	37,190,739	2,186,197,636	25,692	128,350,151	8,594,510,396	TEXAS - TOTAL
144	864,568	109,034,555	453	3,093,103	412,032,316	UTAH
745	5,709,423	418,294,424	1,705	12,316,136	1,041,421,781	WYOMING
329	1,076,252	33,891,510	8,871	30,858,313	1,085,954,872	APPALACHIAN*
5	41,482	61,157,227	5	41,482	61,157,227	OFFSHORE FED. - ALASKA
3	45,371	72,228,519	3	45,371	72,228,519	OFFSHORE FED. - ATLANTIC
51	615,611	408,911,523	60	701,449	457,604,257	OFFSHORE FED. - GULF NORTH
11	85,057	105,601,897	12	90,857	114,805,797	OFFSHORE FED. - PACIFIC
70	787,521	647,899,166	30	879,159	735,999,800	OFFSHORE FED - TOTAL
185	528,514	47,717,672	453	1,322,930	93,526,798	OTHER UNITED STATES**
563	6,049,776	2,348,852,445	1,421	14,259,153	5,023,946,644	TOTAL OFFSHORE ***
22,688	107,837,224	5,304,338,905	75,789	336,329,573	20,182,272,662	TOTAL ONSHORE
23,251	113,927,000	7,653,191,350	77,210	350,588,726	25,206,219,306	TOTAL U.S.
10,636	57,932,864	4,677,741,971	14,496	81,069,784	7,102,091,359	EXPLORATORY WELLS
12,615	55,994,136	2,975,449,379	62,714	269,518,942	18,104,127,947	DEVELOPMENT WELLS

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

TOTAL UNITED STATES*

Table 2

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		7,401	572	2,743	10,716				
FOOTAGE	0 - 1,249	6,481,393	485,209	2,041,805	9,008,407	876	848	744	841
COSTS $		268,974,930	19,125,431	50,821,692	338,922,053	36,343	33,436	18,528	31,628
WELLS		7,912	1,648	3,527	13,087				
FOOTAGE	1,250 - 2,499	13,492,480	3,184,744	6,381,385	23,058,609	1,705	1,932	1,809	1,762
COSTS $		592,299,194	125,643,474	153,400,884	871,343,552	74,861	76,240	43,493	66,581
WELLS		7,208	2,663	3,894	13,765				
FOOTAGE	2,500 - 3,749	22,881,588	8,645,617	12,376,319	43,903,524	3,174	3,247	3,178	3,190
COSTS $		1,046,756,219	348,269,015	305,604,749	1,700,629,983	145,221	130,781	78,481	123,547
WELLS		5,212	3,365	4,165	12,742				
FOOTAGE	3,750 - 4,999	22,891,820	14,280,580	18,170,400	55,342,800	4,392	4,244	4,363	4,343
COSTS $		1,075,044,219	583,572,175	497,598,147	2,156,214,541	206,263	173,424	119,471	169,221
WELLS		5,685	3,352	4,317	13,354				
FOOTAGE	5,000 - 7,499	35,008,643	20,065,918	26,260,917	81,335,478	6,158	5,986	6,083	6,091
COSTS $		2,109,430,404	1,026,674,423	996,997,396	4,133,102,223	371,052	306,287	230,947	309,503
WELLS		3,811	1,631	2,347	7,789				
FOOTAGE	7,500 - 9,999	32,828,167	14,018,172	20,219,772	67,066,111	8,614	8,595	8,615	8,610
COSTS $		2,376,146,174	1,249,655,018	1,238,071,597	4,863,872,789	623,497	766,189	527,512	624,454
WELLS		1,331	1,045	1,301	3,677				
FOOTAGE	10,000 - 12,499	14,599,877	11,604,741	14,427,486	40,632,104	10,969	11,105	11,090	11,050
COSTS $		1,612,934,235	1,485,680,375	1,370,894,911	4,469,509,521	1,211,821	1,421,704	1,053,724	1,215,532
WELLS		329	452	606	1,387				
FOOTAGE	12,500 - 14,999	4,397,614	6,098,988	8,168,094	18,664,696	13,367	13,493	13,479	13,457
COSTS $		770,392,285	1,156,531,109	1,291,147,101	3,218,070,495	2,341,618	2,558,697	2,130,606	2,320,166
WELLS		71	190	258	519				
FOOTAGE	15,000 - 17,499	1,135,360	2,998,820	4,112,626	8,246,806	15,991	15,783	15,940	15,890
COSTS $		265,874,759	839,365,951	1,028,197,657	2,133,438,367	3,744,715	4,417,716	3,985,262	4,110,671
WELLS		14	46	77	137				
FOOTAGE	17,500 - 19,999	257,100	840,562	1,413,145	2,510,807	18,364	18,273	18,353	18,327
COSTS $		76,912,262	274,845,080	498,358,177	850,115,519	5,493,733	5,976,893	6,472,184	6,205,223
WELLS		2	19	16	37				
FOOTAGE	20,000 & OVER	43,516	420,817	355,051	819,384	21,758	22,148	22,191	22,146
COSTS $		19,475,107	229,426,117	222,099,039	471,000,263	9,737,554	12,075,059	13,881,190	12,729,737
TOTAL WELLS		38,976	14,983	23,251	77,210				
TOTAL FOOTAGE		154,017,558	82,644,168	113,927,000	350,588,726	3,952	5,516	4,900	4,541
TOTAL COSTS $		10,214,239,788	7,338,788,168	7,653,191,350	25,206,219,306	262,065	489,808	329,155	326,463

* Includes the following states and areas which are not shown separately: Arizona, Georgia, Idaho, Missouri, Nevada, Oregon, South Dakota, Tennessee, Virginia, Offshore Federal Waters-Alaska, Offshore Federal Waters-Atlantic Coast and Offshore Federal Waters-Pacific Coast.

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

Table 3

TOTAL OFFSHORE*

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	1	3	4				
FOOTAGE	0 - 1,249	--	1,119	1,916	3,035	--	1,119	639	759
COSTS $		--	1,038,539	4,300,848	5,339,387	--	1,038,539	1,433,616	1,334,847
WELLS		--	1	1	2				
FOOTAGE	1,250 - 2,499	--	2,081	2,137	4,218	--	2,081	2,137	2,109
COSTS $		--	1,470,360	763,098	2,233,458	--	1,470,360	763,098	1,116,729
WELLS		13	6	10	29				
FOOTAGE	2,500 - 3,749	45,137	19,326	32,801	97,264	3,472	3,221	3,280	3,354
COSTS $		7,814,104	7,187,575	17,680,625	32,682,304	601,085	1,197,929	1,768,063	1,126,976
WELLS		41	16	16	73				
FOOTAGE	3,750 - 4,999	183,473	70,598	73,057	327,126	4,475	4,412	4,566	4,481
COSTS $		29,686,857	28,337,470	25,318,035	83,342,362	724,070	1,771,092	1,582,377	1,141,676
WELLS		125	66	71	262				
FOOTAGE	5,000 - 7,499	784,271	409,034	457,434	1,650,739	6,274	6,197	6,443	6,301
COSTS $		191,949,941	109,944,418	144,176,498	446,070,857	1,535,600	1,665,825	2,030,655	1,702,561
WELLS		109	97	139	345				
FOOTAGE	7,500 - 9,999	956,001	871,509	1,231,680	3,059,190	8,771	8,985	8,861	8,867
COSTS $		273,582,611	261,326,723	366,195,924	901,105,258	2,509,932	2,694,090	2,634,503	2,611,899
WELLS		126	77	132	335				
FOOTAGE	10,000 - 12,499	1,403,500	859,966	1,483,622	3,747,088	11,139	11,168	11,240	11,185
COSTS $		415,574,279	254,940,181	509,663,085	1,180,177,545	3,298,209	3,310,912	3,861,084	3,522,918
WELLS		56	72	119	247				
FOOTAGE	12,500 - 14,999	749,760	975,835	1,614,119	3,339,734	13,389	13,553	13,564	13,521
COSTS $		269,066,378	369,515,706	596,953,495	1,235,535,579	4,804,757	5,132,163	5,016,416	5,002,169
WELLS		13	32	56	101				
FOOTAGE	15,000 - 17,499	206,665	501,121	887,192	1,594,978	15,897	15,660	15,843	15,792
COSTS $		109,561,279	264,229,095	427,784,505	801,554,879	8,426,252	8,257,159	7,639,009	7,936,187
WELLS		3	2	11	16				
FOOTAGE	17,500 - 19,999	52,961	35,166	200,147	288,274	17,654	17,583	18,195	18,017
COSTS $		25,242,637	15,560,146	147,983,149	188,785,932	8,414,212	7,780,073	13,453,014	11,799,121
WELLS		--	2	5	7				
FOOTAGE	20,000 & OVER	--	41,834	105,671	147,505	--	20,917	21,134	21,072
COSTS $		--	39,085,900	108,033,183	147,119,083	--	19,542,951	21,606,637	21,017,013
TOTAL WELLS		486	372	563	1,421				
TOTAL FOOTAGE		4,381,788	3,787,589	6,089,776	14,259,153	9,016	10,182	10,817	10,035
TOTAL COSTS $		1,322,458,086	1,352,636,113	2,348,852,445	5,023,946,644	2,721,107	3,636,119	4,172,029	3,535,501

* Includes Alabama Offshore, Offshore Federal Waters-Alaska, Offshore Federal Waters-Atlantic Coast, and Offshore Federal Waters-Pacific Coast, which are not shown separately.

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

TOTAL ONSHORE*

Table 4

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		7,401	571	2,740	10,712				
FOOTAGE	0 - 1,249	6,481,393	484,090	2,039,889	9,005,372	876	848	744	841
COSTS $		268,974,930	18,086,892	46,520,844	333,582,666	36,343	31,676	16,978	31,141
WELLS		7,912	1,647	3,526	13,085				
FOOTAGE	1,250 - 2,499	13,492,480	3,182,663	6,379,248	23,054,391	1,705	1,932	1,809	1,762
COSTS $		592,299,194	124,173,114	152,637,786	869,110,094	74,861	75,394	43,289	66,420
WELLS		7,195	2,657	3,884	13,736				
FOOTAGE	2,500 - 3,749	22,836,451	8,626,291	12,343,518	43,806,260	3,174	3,247	3,178	3,189
COSTS $		1,038,942,115	341,081,440	287,924,124	1,667,947,679	144,398	128,371	74,131	121,429
WELLS		5,171	3,349	4,149	12,669				
FOOTAGE	3,750 - 4,999	22,708,347	14,209,982	18,097,343	55,015,672	4,391	4,243	4,362	4,343
COSTS $		1,045,357,362	555,234,705	472,280,112	2,072,872,179	202,158	165,791	113,830	163,618
WELLS		5,560	3,286	4,246	13,092				
FOOTAGE	5,000 - 7,499	34,224,372	19,656,884	25,803,483	79,684,739	6,155	5,982	6,077	6,087
COSTS $		1,917,480,463	916,730,005	852,820,898	3,687,031,366	344,871	278,981	200,853	281,625
WELLS		3,702	1,534	2,208	7,444				
FOOTAGE	7,500 - 9,999	31,872,166	13,146,643	18,988,092	64,006,921	8,609	8,570	8,600	8,598
COSTS $		2,102,563,563	988,328,295	871,875,673	3,962,767,531	567,953	644,282	394,871	532,344
WELLS		1,205	968	1,169	3,342				
FOOTAGE	10,000 - 12,499	13,196,377	10,744,775	12,943,864	36,885,016	10,951	11,100	11,073	11,037
COSTS $		1,197,359,956	1,230,740,194	861,231,826	3,289,331,976	993,660	1,271,426	736,725	984,241
WELLS		273	380	487	1,140				
FOOTAGE	12,500 - 14,999	3,647,834	5,123,153	6,553,975	15,324,962	13,362	13,482	13,458	13,443
COSTS $		501,325,907	787,015,403	694,193,606	1,982,534,916	1,836,359	2,071,093	1,425,449	1,739,066
WELLS		58	158	202	418				
FOOTAGE	15,000 - 17,499	928,695	2,497,699	3,225,434	6,651,828	16,012	15,808	15,967	15,913
COSTS $		156,333,480	575,136,856	600,413,152	1,331,883,488	2,695,405	3,640,107	2,972,342	3,186,324
WELLS		11	44	66	121				
FOOTAGE	17,500 - 19,999	204,139	805,396	1,212,998	2,222,533	18,558	18,304	18,379	18,368
COSTS $		51,669,625	259,284,934	350,375,028	661,329,587	4,697,239	5,892,840	5,308,713	5,465,534
WELLS		2	17	11	30				
FOOTAGE	20,000 & OVER	43,516	378,983	249,380	671,879	21,758	22,293	22,671	22,396
COSTS $		19,475,107	190,340,217	114,065,856	323,881,180	9,737,554	11,196,483	10,369,623	10,796,039
TOTAL WELLS		38,490	14,611	22,688	75,789				
TOTAL FOOTAGE		149,635,770	78,856,579	107,837,224	336,329,573	3,888	5,397	4,753	4,438
TOTAL COSTS $		8,891,781,702	5,986,152,055	5,304,338,905	20,182,272,662	231,015	409,702	233,795	266,296

* Includes the following states and areas which are not shown separately: Arizona, Georgia, Idaho, Missouri, Nevada, Oregon, South Dakota, Tennessee and Virginia. Note: Includes Alaska-Onshore.

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

ALABAMA *

Table 5

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	2	11	13				
FOOTAGE	0 - 1,249	--	2,450	7,647	10,097	--	1,225	695	777
COSTS $		--	208,338	218,789	427,127	--	104,169	19,890	32,856
WELLS		5	51	44	100				
FOOTAGE	1,250 - 2,499	12,006	102,099	82,951	197,056	2,401	2,002	1,885	1,971
COSTS $		836,631	7,259,455	2,626,275	10,722,361	167,326	142,342	59,688	107,224
WELLS		7	49	50	106				
FOOTAGE	2,500 - 3,749	21,965	139,683	152,050	313,698	3,138	2,851	3,041	2,959
COSTS $		1,718,296	8,997,269	6,030,897	16,746,462	245,471	183,618	120,618	157,985
WELLS		3	23	23	49				
FOOTAGE	3,750 - 4,999	13,677	106,657	100,857	221,191	4,559	4,637	4,385	4,514
COSTS $		1,080,514	7,329,567	4,110,859	12,520,940	360,171	318,677	178,733	255,529
WELLS		--	13	14	27				
FOOTAGE	5,000 - 7,499	--	67,135	74,785	141,920	--	5,164	5,342	5,256
COSTS $		--	5,105,140	3,515,638	8,620,778	--	392,703	251,117	319,288
WELLS		--	--	1	1				
FOOTAGE	7,500 - 9,999	--	--	8,712	8,712	--	--	8,712	8,712
COSTS $		--	--	582,566	582,566	--	--	582,566	582,566
WELLS		1	--	12	13				
FOOTAGE	10,000 - 12,499	11,510	--	140,096	151,606	11,510	--	11,675	11,662
COSTS $		1,358,180	--	11,465,780	12,823,960	1,358,180	--	955,482	986,458
WELLS		5	--	18	23				
FOOTAGE	12,500 - 14,999	70,450	--	246,449	316,899	14,090	--	13,692	13,778
COSTS $		9,736,124	--	16,746,416	26,482,540	1,947,225	--	930,356	1,151,415
WELLS		6	4	16	26				
FOOTAGE	15,000 - 17,499	94,521	63,470	252,708	410,699	15,754	15,868	15,794	15,796
COSTS $		11,688,371	12,877,157	14,963,003	39,528,531	1,948,062	3,219,289	935,188	1,520,328
WELLS		--	1	--	1				
FOOTAGE	17,500 - 19,999	--	18,561	--	18,561	--	18,561	--	18,561
COSTS $		--	6,094,651	--	6,094,651	--	6,094,651	--	6,094,651
WELLS		--	2	--	2				
FOOTAGE	20,000 & OVER	--	41,834	--	41,834	--	20,917	--	20,917
COSTS $		--	39,085,900	--	39,085,900	--	19,542,951	--	19,542,951
TOTAL WELLS		27	145	189	361				
TOTAL FOOTAGE		224,129	541,889	1,066,255	1,832,273	8,301	3,737	5,642	5,076
TOTAL COSTS $		26,418,116	80,957,477	60,260,223	173,635,816	978,449	599,707	318,837	480,986

* Includes two gas wells for Alabama Offshore.

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

ALASKA - TOTAL

Table 6

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	--	--				
FOOTAGE 0 - 1,249	--	--	--	--	--	--	--	--
COSTS $	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE 1,250 - 2,499	--	--	--	--	--	--	--	--
COSTS $	--	--	--	--	--	--	--	--
WELLS	--	--	1	1				
FOOTAGE 2,500 - 3,749	--	--	3,412	3,412	--	--	3,412	3,412
COSTS $	--	--	921,240	921,240	--	--	921,240	921,240
WELLS	9	--	--	9				
FOOTAGE 3,750 - 4,999	37,165	--	--	37,165	4,129	--	--	4,129
COSTS $	15,275,550	--	--	15,275,550	1,697,283	--	--	1,697,283
WELLS	26	--	1	27				
FOOTAGE 5,000 - 7,499	180,514	--	5,574	186,088	6,943	--	5,574	6,892
COSTS $	40,251,302	--	6,365,790	46,617,092	1,548,127	--	6,365,790	1,726,559
WELLS	83	1	--	84				
FOOTAGE 7,500 - 9,999	700,949	8,232	--	709,181	8,445	8,232	--	8,443
COSTS $	150,046,905	6,412,597	--	156,459,502	1,807,794	6,412,597	--	1,862,613
WELLS	30	--	2	32				
FOOTAGE 10,000 - 12,499	333,616	--	22,950	356,566	11,121	--	11,475	11,143
COSTS $	108,690,619	--	13,338,450	122,029,069	3,623,021	--	6,669,225	3,813,409
WELLS	7	--	2	9				
FOOTAGE 12,500 - 14,999	91,934	--	28,476	120,410	13,133	--	14,238	13,379
COSTS $	59,335,203	--	58,780,376	118,115,579	8,476,458	--	29,390,188	13,123,953
WELLS	--	--	--	--				
FOOTAGE 15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE 17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE 20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $	--	--	--	--	--	--	--	--
TOTAL WELLS	155	1	6	162				
TOTAL FOOTAGE	1,344,178	8,232	60,412	1,412,822	8,672	8,232	10,069	8,721
TOTAL COSTS $	373,599,579	6,412,597	79,405,856	459,418,032	2,410,320	6,412,597	13,234,309	2,835,914

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

ALASKA - ONSHORE

Table 7

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	--	--				
FOOTAGE	0 - 1,249	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	1,250 - 2,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	1	1				
FOOTAGE	2,500 - 3,749	--	--	3,412	3,412	--	--	3,412	3,412
COSTS $		--	--	921,240	921,240	--	--	921,240	921,240
WELLS		9	--	--	9				
FOOTAGE	3,750 - 4,999	37,165	--	--	37,165	4,129	--	--	4,129
COSTS $		15,275,550	--	--	15,275,550	1,697,283	--	--	1,697,283
WELLS		26	--	--	26				
FOOTAGE	5,000 - 7,499	180,514	--	--	180,514	6,943	--	--	6,943
COSTS $		40,251,302	--	--	40,251,302	1,548,127	--	--	1,548,127
WELLS		82	1	--	83				
FOOTAGE	7,500 - 9,999	691,227	8,232	--	699,459	8,430	8,232	--	8,427
COSTS $		146,467,372	6,412,597	--	152,879,969	1,786,188	6,412,597	--	1,861,927
WELLS		28	--	1	29				
FOOTAGE	10,000 - 12,499	311,900	--	11,600	323,500	11,139	--	11,600	11,155
COSTS $		102,301,847	--	6,240,073	108,541,920	3,653,638	--	6,240,073	3,742,825
WELLS		6	--	2	8				
FOOTAGE	12,500 - 14,999	78,599	--	28,476	107,075	13,100	--	14,238	13,384
COSTS $		52,745,514	--	58,780,376	111,525,890	8,790,919	--	29,390,188	13,940,736
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		151	1	4	156				
TOTAL FOOTAGE		1,299,405	8,232	43,488	1,351,125	8,605	8,232	10,872	8,661
TOTAL COSTS $		357,041,585	6,412,597	65,941,689	429,395,871	2,364,514	6,412,597	16,485,422	2,752,538

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

ALASKA - OFFSHORE

Table 8

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	--	--				
FOOTAGE	0 - 1,249	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	1,250 - 2,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	2,500 - 3,749	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	3,750 - 4,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	1	1				
FOOTAGE	5,000 - 7,499	--	--	5,574	5,574	--	--	5,574	5,574
COSTS $		--	--	6,365,790	6,365,790	--	--	6,365,790	6,365,790
WELLS		1	--	--	1				
FOOTAGE	7,500 - 9,999	9,722	--	--	9,722	9,722	--	--	9,722
COSTS $		3,579,533	--	--	3,579,533	3,579,533	--	--	3,579,533
WELLS		2	--	1	3				
FOOTAGE	10,000 - 12,499	21,716	--	11,350	33,066	10,858	--	11,350	11,022
COSTS $		6,388,772	--	7,098,377	13,487,149	3,194,386	--	7,098,377	4,495,717
WELLS		1	--	--	1				
FOOTAGE	12,500 - 14,999	13,335	--	--	13,335	13,335	--	--	13,335
COSTS $		6,589,689	--	--	6,589,689	6,589,689	--	--	6,589,689
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		4	--	2	6				
TOTAL FOOTAGE		44,773	--	16,924	61,697	11,193	--	8,462	10,283
TOTAL COSTS $		16,557,994	--	13,464,167	30,022,161	4,139,499	--	6,732,084	5,003,694

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

ARKANSAS

Table 9

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		1	12	17	30				
FOOTAGE	0 - 1,249	1,238	7,579	12,750	21,567	1,238	632	750	719
COSTS $		46,517	1,193,213	301,810	1,541,540	46,517	99,434	17,754	51,385
WELLS		63	10	24	97				
FOOTAGE	1,250 - 2,499	133,072	20,982	47,218	201,272	2,112	2,098	1,967	2,075
COSTS $		3,397,537	1,794,506	736,087	5,928,130	53,929	179,451	30,670	61,115
WELLS		111	19	82	212				
FOOTAGE	2,500 - 3,749	331,438	56,183	261,812	649,433	2,986	2,957	3,193	3,063
COSTS $		8,166,602	3,924,787	4,902,209	16,993,598	73,573	206,568	59,783	80,158
WELLS		48	27	79	154				
FOOTAGE	3,750 - 4,999	208,972	119,655	339,723	668,350	4,354	4,432	4,300	4,340
COSTS $		5,830,690	9,266,161	8,349,485	23,446,336	121,473	343,191	105,690	152,249
WELLS		25	112	91	228				
FOOTAGE	5,000 - 7,499	153,305	687,952	551,068	1,392,325	6,132	6,142	6,056	6,107
COSTS $		5,650,171	56,481,634	17,806,854	79,938,659	226,007	504,300	195,680	350,608
WELLS		33	28	43	104				
FOOTAGE	7,500 - 9,999	273,381	228,103	362,128	863,612	8,284	8,147	8,422	8,304
COSTS $		15,099,545	21,150,237	14,577,044	50,826,826	457,562	755,366	339,001	488,719
WELLS		3	7	18	28				
FOOTAGE	10,000 - 12,499	33,666	77,631	198,471	309,768	11,222	11,090	11,026	11,063
COSTS $		3,287,057	4,940,850	7,858,715	16,086,622	1,095,686	705,836	436,595	574,522
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		284	215	354	853				
TOTAL FOOTAGE		1,135,072	1,198,085	1,773,170	4,106,327	3,997	5,572	5,009	4,814
TOTAL COSTS $		41,478,119	98,751,388	54,532,204	194,761,711	146,050	459,309	154,046	228,326

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

CALIFORNIA - TOTAL

Table 10

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		1,218	--	17	1,235				
FOOTAGE	0 - 1,249	1,220,949	--	17,070	1,238,019	1,002	--	1,004	1,002
COSTS $		92,849,957	--	975,941	93,825,898	76,231	--	57,408	75,972
WELLS		1,113	2	25	1,140				
FOOTAGE	1,250 - 2,499	1,769,611	3,852	41,797	1,815,260	1,590	1,926	1,672	1,592
COSTS $		129,176,915	434,123	3,260,800	132,871,838	116,062	217,062	130,432	116,554
WELLS		341	4	27	372				
FOOTAGE	2,500 - 3,749	1,037,975	13,514	86,747	1,138,236	3,044	3,379	3,213	3,060
COSTS $		110,197,142	1,478,246	5,731,290	117,406,678	323,159	369,562	212,270	315,609
WELLS		133	12	30	175				
FOOTAGE	3,750 - 4,999	569,907	50,599	127,621	748,127	4,285	4,217	4,254	4,275
COSTS $		62,097,582	4,024,648	9,378,865	75,501,095	466,899	335,387	312,629	431,435
WELLS		147	32	97	276				
FOOTAGE	5,000 - 7,499	864,631	203,614	624,351	1,692,596	5,882	6,363	6,437	6,133
COSTS $		113,307,698	16,401,670	55,750,336	185,459,704	770,801	512,552	574,746	671,955
WELLS		39	30	56	125				
FOOTAGE	7,500 - 9,999	325,241	250,334	474,132	1,049,707	8,340	8,344	8,467	8,398
COSTS $		62,474,798	36,067,669	42,025,927	140,568,394	1,601,918	1,202,256	750,463	1,124,547
WELLS		17	15	36	68				
FOOTAGE	10,000 - 12,499	191,031	172,006	397,901	760,938	11,237	11,467	11,053	11,190
COSTS $		52,205,044	18,366,179	96,184,537	166,755,760	3,070,885	1,224,412	2,671,793	2,452,291
WELLS		13	6	9	28				
FOOTAGE	12,500 - 14,999	176,263	76,354	123,702	376,319	13,559	12,726	13,745	13,440
COSTS $		57,067,808	7,684,000	50,247,305	114,999,113	4,389,832	1,280,667	5,583,034	4,107,111
WELLS		1	1	1	3				
FOOTAGE	15,000 - 17,499	15,131	16,969	16,200	48,300	15,131	16,969	16,200	16,100
COSTS $		4,539,300	4,509,629	3,575,311	12,624,240	4,539,300	4,509,629	3,575,311	4,208,080
WELLS		--	--	3	3				
FOOTAGE	17,500 - 19,999	--	--	54,207	54,207	--	--	18,069	18,069
COSTS $		--	--	50,493,316	50,493,316	--	--	16,831,106	16,831,106
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		3,022	102	301	3,425				
TOTAL FOOTAGE		6,170,739	787,242	1,963,728	8,921,709	2,042	7,718	6,524	2,605
TOTAL COSTS $		683,916,244	88,966,164	317,623,628	1,090,506,036	226,312	872,217	1,055,228	318,396

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

CALIFORNIA - NORTH

Table 11

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	--	--				
FOOTAGE	0 - 1,249	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		1	2	3	6				
FOOTAGE	1,250 - 2,499	1,809	3,852	5,677	11,338	1,809	1,926	1,892	1,890
COSTS $		211,653	434,123	180,669	826,445	211,653	217,062	60,223	137,741
WELLS		--	4	13	17				
FOOTAGE	2,500 - 3,749	--	13,514	42,061	55,575	--	3,379	3,235	3,269
COSTS $		--	1,478,246	1,755,106	3,233,352	--	369,562	135,008	190,197
WELLS		3	9	18	30				
FOOTAGE	3,750 - 4,999	11,965	38,514	76,513	126,992	3,988	4,279	4,251	4,233
COSTS $		1,019,870	3,083,201	2,911,098	7,014,169	339,957	342,578	161,728	233,806
WELLS		--	32	58	90				
FOOTAGE	5,000 - 7,499	--	203,614	384,390	588,004	--	6,363	6,627	6,533
COSTS $		--	16,401,670	18,486,544	34,888,214	--	512,552	318,734	387,647
WELLS		--	26	31	57				
FOOTAGE	7,500 - 9,999	--	216,203	256,883	473,086	--	8,316	8,287	8,300
COSTS $		--	25,707,789	15,969,477	41,677,266	--	988,761	515,144	731,180
WELLS		--	7	11	18				
FOOTAGE	10,000 - 12,499	--	74,429	119,064	193,493	--	10,633	10,824	10,750
COSTS $		--	8,520,179	17,570,471	26,090,650	--	1,217,168	1,597,316	1,449,481
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		4	80	134	218				
TOTAL FOOTAGE		13,774	550,126	884,588	1,448,488	3,444	6,877	6,601	6,644
TOTAL COSTS $		1,231,523	55,625,208	56,873,365	113,730,096	307,881	695,315	424,428	521,698

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

CALIFORNIA -CENTRAL COASTAL

Table 12

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		4	--	1	5				
FOOTAGE	0 - 1,249	4,400	--	1,070	5,470	1,100	--	1,070	1,094
COSTS $		406,179	--	48,952	455,131	101,545	--	48,952	91,026
WELLS		37	--	3	40				
FOOTAGE	1,250 - 2,499	79,837	--	5,670	85,507	2,158	--	1,890	2,138
COSTS $		8,522,804	--	659,638	9,182,442	230,346	--	219,879	229,561
WELLS		44	--	2	46				
FOOTAGE	2,500 - 3,749	122,563	--	5,650	128,213	2,786	--	2,825	2,787
COSTS $		13,561,406	--	791,498	14,352,904	308,214	--	395,749	312,020
WELLS		11	1	3	15				
FOOTAGE	3,750 - 4,999	50,954	3,885	12,760	67,599	4,632	3,885	4,253	4,507
COSTS $		7,029,368	411,810	1,036,573	8,477,751	639,033	411,810	345,524	565,183
WELLS		23	--	12	35				
FOOTAGE	5,000 - 7,499	132,280	--	73,585	205,865	5,751	--	6,132	5,882
COSTS $		20,486,747	--	9,436,674	29,923,421	890,728	--	786,390	854,955
WELLS		10	1	2	13				
FOOTAGE	7,500 - 9,999	81,213	7,785	18,686	107,684	8,121	7,785	9,343	8,283
COSTS $		12,563,328	895,275	3,171,705	16,630,308	1,256,333	895,275	1,585,853	1,279,255
WELLS		5	--	3	8				
FOOTAGE	10,000 - 12,499	55,255	--	34,726	89,981	11,051	--	11,575	11,248
COSTS $		13,079,456	--	21,091,483	34,170,939	2,615,891	--	7,030,495	4,271,366
WELLS		2	--	--	2				
FOOTAGE	12,500 - 14,999	26,900	--	--	26,900	13,450	--	--	13,450
COSTS $		7,093,160	--	--	7,093,160	3,546,580	--	--	3,546,580
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		136	2	26	164				
TOTAL FOOTAGE		553,402	11,670	152,147	717,219	4,069	5,835	5,852	4,373
TOTAL COSTS $		82,742,448	1,307,085	36,236,523	120,286,056	608,400	653,543	1,393,712	733,452

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

CALIFORNIA - EAST CENTRAL

Table 13

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		1,204	--	16	1,220				
FOOTAGE	0 - 1,249	1,205,401	--	16,000	1,221,401	1,001	--	1,000	1,001
COSTS $		91,643,022	--	926,989	92,570,011	76,115	--	57,937	75,877
WELLS		1,063	--	19	1,082				
FOOTAGE	1,250 - 2,499	1,664,711	--	30,450	1,695,161	1,566	--	1,603	1,567
COSTS $		116,913,950	--	2,420,493	119,334,443	109,985	--	127,394	110,291
WELLS		264	--	11	275				
FOOTAGE	2,500 - 3,749	807,346	--	35,579	842,925	3,058	--	3,234	3,065
COSTS $		83,053,886	--	2,769,846	85,823,732	314,598	--	251,804	312,086
WELLS		67	2	7	76				
FOOTAGE	3,750 - 4,999	275,911	5,200	29,825	313,936	4,118	4,100	4,261	4,131
COSTS $		27,111,417	529,637	2,246,390	29,887,444	404,648	264,819	320,913	393,256
WELLS		53	--	21	74				
FOOTAGE	5,000 - 7,499	321,036	--	129,744	450,780	6,057	--	6,178	6,092
COSTS $		31,760,593	--	11,900,979	43,661,572	599,257	--	566,713	590,021
WELLS		13	--	21	34				
FOOTAGE	7,500 - 9,999	109,264	--	181,132	290,396	8,405	--	8,625	8,541
COSTS $		15,349,187	--	13,849,957	29,199,144	1,180,707	--	659,522	858,798
WELLS		6	8	18	32				
FOOTAGE	10,000 - 12,499	71,643	97,577	197,690	366,910	11,941	12,197	10,983	11,466
COSTS $		15,176,666	9,846,000	17,572,296	42,594,962	2,529,444	1,230,750	976,239	1,331,093
WELLS		9	6	5	20				
FOOTAGE	12,500 - 14,999	123,980	76,354	68,298	268,632	13,776	12,726	13,660	13,432
COSTS $		29,373,319	7,684,000	8,104,474	45,161,793	3,263,702	1,280,667	1,620,895	2,258,090
WELLS		1	--	1	2				
FOOTAGE	15,000 - 17,499	15,131	--	16,200	31,331	15,131	--	16,200	15,666
COSTS $		4,539,300	--	3,575,311	8,114,611	4,539,300	--	3,575,311	4,057,306
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		2,680	16	119	2,815				
TOTAL FOOTAGE		4,594,423	182,131	704,918	5,481,472	1,714	11,383	5,924	1,947
TOTAL COSTS $		414,921,340	18,059,637	63,366,735	496,347,712	154,821	1,128,727	532,494	176,322

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

CALIFORNIA - SOUTH

Table 14

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		10	--	--	10				
FOOTAGE	0 - 1,249	11,148	--	--	11,148	1,115	--	--	1,115
COSTS $		800,756	--	--	800,756	80,076	--	--	80,076
WELLS		12	--	--	12				
FOOTAGE	1,250 - 2,499	23,254	--	--	23,254	1,938	--	--	1,938
COSTS $		3,528,508	--	--	3,528,508	294,042	--	--	294,042
WELLS		22	--	1	23				
FOOTAGE	2,500 - 3,749	69,966	--	3,457	73,423	3,180	--	3,457	3,192
COSTS $		8,778,440	--	414,840	9,193,280	399,020	--	414,840	399,708
WELLS		18	--	1	19				
FOOTAGE	3,750 - 4,999	79,047	--	3,932	82,979	4,392	--	3,932	4,367
COSTS $		7,426,083	--	463,976	7,890,059	412,560	--	463,976	415,266
WELLS		24	--	4	28				
FOOTAGE	5,000 - 7,499	135,825	--	23,490	159,315	5,659	--	5,873	5,690
COSTS $		13,698,969	--	2,313,633	16,012,602	570,790	--	578,408	571,879
WELLS		2	1	1	4				
FOOTAGE	7,500 - 9,999	17,852	9,559	7,500	34,911	8,926	9,559	7,500	8,728
COSTS $		3,772,498	2,877,765	522,856	7,173,119	1,886,249	2,877,765	522,856	1,793,280
WELLS		2	--	--	2				
FOOTAGE	10,000 - 12,499	21,031	--	--	21,031	10,516	--	--	10,516
COSTS $		7,748,340	--	--	7,748,340	3,874,170	--	--	3,874,170
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	2	2				
FOOTAGE	17,500 - 19,999	--	--	36,631	36,631	--	--	18,316	18,316
COSTS $		--	--	23,950,498	23,950,498	--	--	11,975,249	11,975,249
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		90	1	9	100				
TOTAL FOOTAGE		358,123	9,559	75,010	442,692	3,979	9,559	8,334	4,427
TOTAL COSTS $		45,753,594	2,877,765	27,665,803	76,297,162	508,373	2,877,765	3,073,978	762,972

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

CALIFORNIA - OFFSHORE

Table 15

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	--	--				
FOOTAGE	0 - 1,249	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	1,250 - 2,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		11	--	--	11				
FOOTAGE	2,500 - 3,749	38,100	--	--	38,100	3,464	--	--	3,464
COSTS $		4,803,410	--	--	4,803,410	436,674	--	--	436,674
WELLS		34	--	1	35				
FOOTAGE	3,750 - 4,999	152,030	--	4,591	156,621	4,471	--	4,591	4,475
COSTS $		19,510,844	--	2,720,828	22,231,672	573,848	--	2,720,828	635,191
WELLS		47	--	2	49				
FOOTAGE	5,000 - 7,499	275,490	--	13,142	288,632	5,861	--	6,571	5,890
COSTS $		47,361,389	--	13,612,506	60,973,895	1,007,689	--	6,806,253	1,244,365
WELLS		14	2	1	17				
FOOTAGE	7,500 - 9,999	116,912	16,787	9,931	143,630	8,351	8,394	9,931	8,449
COSTS $		30,789,785	6,586,840	8,511,932	45,888,557	2,199,270	3,293,420	8,511,932	2,699,327
WELLS		4	--	4	8				
FOOTAGE	10,000 - 12,499	43,102	--	46,421	89,523	10,776	--	11,605	11,190
COSTS $		16,200,582	--	39,950,287	56,150,869	4,050,146	--	9,987,572	7,018,859
WELLS		2	--	4	6				
FOOTAGE	12,500 - 14,999	25,383	--	55,404	80,787	12,692	--	13,851	13,465
COSTS $		20,601,329	--	42,142,831	62,744,160	10,300,665	--	10,535,708	10,457,360
WELLS		--	1	--	1				
FOOTAGE	15,000 - 17,499	--	16,969	--	16,969	--	16,969	--	16,969
COSTS $		--	4,509,629	--	4,509,629	--	4,509,629	--	4,509,629
WELLS		--	--	1	1				
FOOTAGE	17,500 - 19,999	--	--	17,576	17,576	--	--	17,576	17,576
COSTS $		--	--	26,542,818	26,542,818	--	--	26,542,818	26,542,818
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		112	3	13	128				
TOTAL FOOTAGE		651,017	33,756	147,065	831,838	5,813	11,252	11,313	6,499
TOTAL COSTS $		139,267,339	11,096,469	133,481,202	283,845,010	1,243,458	3,698,823	10,267,785	2,217,539

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

COLORADO

Table 16

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		8	--	14	22				
FOOTAGE	0 - 1,249	6,729	--	9,073	15,802	841	--	648	718
COSTS $		459,770	--	480,691	940,461	57,471	--	34,335	42,748
WELLS		5	44	47	96				
FOOTAGE	1,250 - 2,499	7,071	82,912	85,740	175,723	1,414	1,884	1,824	1,830
COSTS $		313,438	5,073,798	1,948,456	7,335,692	62,688	115,314	41,457	76,413
WELLS		12	110	46	168				
FOOTAGE	2,500 - 3,749	38,341	316,201	142,355	496,897	3,195	2,875	3,095	2,958
COSTS $		1,051,002	14,000,569	5,030,115	20,081,686	87,584	127,278	109,350	119,534
WELLS		48	13	99	160				
FOOTAGE	3,750 - 4,999	225,843	58,939	456,163	740,945	4,705	4,534	4,608	4,631
COSTS $		12,298,565	3,668,366	11,602,961	27,569,892	256,220	282,182	117,202	172,312
WELLS		477	159	348	984				
FOOTAGE	5,000 - 7,499	3,194,451	1,078,614	2,113,119	6,386,184	6,697	6,784	6,072	6,490
COSTS $		238,002,893	56,554,066	66,488,324	361,045,283	498,955	355,686	191,058	366,916
WELLS		113	127	79	319				
FOOTAGE	7,500 - 9,999	897,284	1,017,711	644,525	2,559,520	7,941	8,013	8,159	8,024
COSTS $		47,052,331	53,684,878	34,057,116	134,794,325	416,392	422,716	431,103	422,553
WELLS		1	--	1	2				
FOOTAGE	10,000 - 12,499	10,415	--	10,800	21,215	10,415	--	10,800	10,608
COSTS $		510,335	--	1,018,689	1,529,024	510,335	--	1,018,689	764,512
WELLS		--	1	1	2				
FOOTAGE	12,500 - 14,999	--	13,100	14,824	27,924	--	13,100	14,824	13,962
COSTS $		--	1,713,340	2,288,433	4,001,773	--	1,713,340	2,288,433	2,000,887
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		664	454	635	1,753				
TOTAL FOOTAGE		4,380,134	2,567,477	3,476,599	10,424,210	6,597	5,655	5,475	5,946
TOTAL COSTS $		299,688,334	134,695,017	122,914,785	557,298,136	451,338	296,685	193,567	317,911

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

FLORIDA

Table 17

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	--	--				
FOOTAGE	0 - 1,249	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	1,250 - 2,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	2,500 - 3,749	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	3,750 - 4,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	1	1				
FOOTAGE	5,000 - 7,499	--	--	5,200	5,200	--	--	5,200	5,200
COSTS $		--	--	317,828	317,828	--	--	317,828	317,828
WELLS		--	--	1	1				
FOOTAGE	7,500 - 9,999	--	--	9,075	9,075	--	--	9,075	9,075
COSTS $		--	--	1,171,386	1,171,386	--	--	1,171,386	1,171,386
WELLS		6	--	3	9				
FOOTAGE	10,000 - 12,499	72,425	--	35,575	108,000	12,071	--	11,858	12,000
COSTS $		10,741,300	--	2,545,743	13,287,043	1,790,217	--	848,581	1,476,338
WELLS		--	--	1	1				
FOOTAGE	12,500 - 14,999	--	--	12,836	12,836	--	--	12,836	12,836
COSTS $		--	--	1,123,754	1,123,754	--	--	1,123,754	1,123,754
WELLS		4	--	6	10				
FOOTAGE	15,000 - 17,499	65,200	--	97,323	162,523	16,300	--	16,221	16,252
COSTS $		11,090,134	--	7,223,996	18,314,130	2,772,534	--	1,203,999	1,831,413
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		10	--	12	22				
TOTAL FOOTAGE		137,625	--	160,009	297,634	13,763	--	13,334	13,529
TOTAL COSTS $		21,831,434	--	12,382,707	34,214,141	2,183,144	--	1,031,892	1,555,188

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

ILLINOIS

Table 18

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		259	35	247	541				
FOOTAGE	0 - 1,249	232,481	18,359	170,349	421,189	898	525	690	779
COSTS $		13,504,877	593,711	4,210,159	18,308,747	52,142	16,963	17,045	33,842
WELLS		336	1	177	514				
FOOTAGE	1,250 - 2,499	629,887	2,372	339,237	971,496	1,875	2,372	1,917	1,890
COSTS $		31,125,740	68,788	7,264,477	38,459,005	92,636	68,788	41,042	74,823
WELLS		719	1	464	1,184				
FOOTAGE	2,500 - 3,749	2,267,778	3,182	1,476,590	3,747,550	3,154	3,182	3,182	3,165
COSTS $		83,160,529	89,096	29,713,119	111,962,744	115,661	89,096	61,882	94,563
WELLS		216	--	131	347				
FOOTAGE	3,750 - 4,999	876,903	--	540,050	1,416,953	4,060	--	4,123	4,083
COSTS $		31,930,221	--	11,823,501	43,753,722	147,825	--	90,256	126,091
WELLS		12	--	4	16				
FOOTAGE	5,000 - 7,499	65,700	--	20,560	86,260	5,475	--	5,140	5,391
COSTS $		2,692,576	--	534,498	3,227,074	224,381	--	133,625	201,692
WELLS		--	--	--	--				
FOOTAGE	7,500 - 9,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	10,000 - 12,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		1,542	37	1,023	2,602				
TOTAL FOOTAGE		4,072,749	23,913	2,546,786	6,643,448	2,641	646	2,490	2,553
TOTAL COSTS $		162,413,943	751,595	52,545,754	215,711,292	105,327	20,313	51,364	82,902

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

INDIANA

Table 19

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		110	11	102	225				
FOOTAGE	0 - 1,249	106,267	11,102	92,889	210,258	949	1,009	911	934
COSTS $		3,960,226	555,918	2,116,796	6,632,940	35,359	50,538	20,753	29,480
WELLS		191	9	225	425				
FOOTAGE	1,250 - 2,499	337,345	15,676	414,701	767,722	1,766	1,742	1,843	1,806
COSTS $		12,307,017	1,113,074	8,731,319	22,151,410	64,435	123,675	38,806	52,121
WELLS		97	--	145	242				
FOOTAGE	2,500 - 3,749	272,833	--	409,380	682,213	2,813	--	2,823	2,819
COSTS $		7,825,491	--	7,090,875	14,916,366	80,675	--	48,903	61,638
WELLS		2	--	5	7				
FOOTAGE	3,750 - 4,999	7,733	--	19,833	27,566	3,867	--	3,967	3,938
COSTS $		121,064	--	312,567	433,631	60,532	--	62,513	61,947
WELLS		--	--	--	--				
FOOTAGE	5,000 - 7,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	7,500 - 9,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	10,000 - 12,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		402	20	477	899				
TOTAL FOOTAGE		724,178	26,778	936,803	1,687,759	1,801	1,339	1,964	1,877
TOTAL COSTS $		24,213,798	1,668,992	18,251,557	44,134,347	60,233	83,450	38,263	49,093

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

KANSAS

Table 20

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		273	39	83	395				
FOOTAGE	0 - 1,249	235,752	27,124	64,860	327,736	864	695	781	830
COSTS $		5,720,729	635,485	1,084,684	7,440,898	20,955	16,294	13,068	18,838
WELLS		272	27	188	487				
FOOTAGE	1,250 - 2,499	530,609	47,651	363,021	941,481	1,952	1,765	1,931	1,933
COSTS $		14,290,435	2,160,794	5,388,248	21,839,477	52,538	80,029	28,661	44,845
WELLS		1,023	81	1,041	2,145				
FOOTAGE	2,500 - 3,749	3,428,821	254,162	3,492,401	7,175,384	3,352	3,138	3,355	3,345
COSTS $		105,577,363	11,679,336	56,383,980	173,640,679	103,204	144,189	54,163	80,951
WELLS		922	110	1,452	2,484				
FOOTAGE	3,750 - 4,999	3,952,350	491,185	6,266,055	10,709,590	4,287	4,465	4,315	4,311
COSTS $		136,969,439	18,157,574	112,419,125	267,546,138	148,557	165,069	77,424	107,708
WELLS		150	105	259	514				
FOOTAGE	5,000 - 7,499	866,025	614,256	1,437,487	2,917,768	5,774	5,850	5,550	5,677
COSTS $		45,637,830	30,951,979	37,891,776	114,481,585	304,252	294,781	146,300	222,727
WELLS		--	1	2	3				
FOOTAGE	7,500 - 9,999	--	7,715	15,157	22,872	--	7,715	7,579	7,624
COSTS $		--	516,495	1,286,292	1,802,787	--	516,495	643,146	600,929
WELLS		--	--	--	--				
FOOTAGE	10,000 - 12,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		2,640	363	3,025	6,028				
TOTAL FOOTAGE		9,013,757	1,442,093	11,638,961	22,094,831	3,414	3,973	3,848	3,665
TOTAL COSTS $		308,195,796	64,101,663	214,454,105	586,751,564	116,741	176,589	70,894	97,338

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

KENTUCKY

Table 21

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS: OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	AVERAGE DEPTH AND COST PER WELL: OIL	GAS	DRY	TOTAL
WELLS		574	61	549	1,184				
FOOTAGE	0 - 1,249	427,268	45,997	375,179	848,444	744	754	683	717
COSTS $		12,208,998	2,327,952	6,805,599	21,342,549	21,270	38,163	12,396	18,026
WELLS		345	119	748	1,712				
FOOTAGE	1,250 - 2,499	1,242,645	213,766	1,296,001	2,752,414	1,471	1,796	1,733	1,608
COSTS $		36,063,844	12,376,279	26,009,293	74,449,416	42,679	104,002	34,772	43,487
WELLS		58	64	102	224				
FOOTAGE	2,500 - 3,749	174,472	205,349	300,723	680,544	3,008	3,209	2,948	3,038
COSTS $		7,071,276	11,773,621	9,543,231	28,388,128	121,919	183,963	93,561	126,733
WELLS		6	31	4	41				
FOOTAGE	3,750 - 4,999	23,654	122,815	16,024	162,493	3,942	3,962	4,006	3,963
COSTS $		1,093,340	7,861,490	983,890	9,938,720	182,223	253,596	245,973	242,408
WELLS		--	5	1	6				
FOOTAGE	5,000 - 7,499	--	28,677	6,830	35,507	--	5,735	6,830	5,918
COSTS $		--	1,702,464	583,842	2,286,306	--	340,493	583,842	381,051
WELLS		--	1	--	1				
FOOTAGE	7,500 - 9,999	--	9,644	--	9,644	--	9,644	--	9,644
COSTS $		--	1,109,060	--	1,109,060	--	1,109,060	--	1,109,060
WELLS		--	--	--	--				
FOOTAGE	10,000 - 12,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		1,483	281	1,404	3,168				
TOTAL FOOTAGE		1,808,039	626,250	1,994,757	4,489,046	1,260	2,229	1,421	1,417
TOTAL COSTS $		56,437,458	37,150,866	43,925,855	137,514,179	38,056	132,209	31,286	43,407

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

LOUISIANA - TOTAL

Table 22

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		1,294	6	240	1,540				
FOOTAGE	0 - 1,249	1,364,970	6,534	247,920	1,619,424	1,055	1,089	1,033	1,052
COSTS $		42,125,056	1,440,245	7,450,246	51,015,547	32,554	240,041	31,043	33,127
WELLS		722	335	242	1,299				
FOOTAGE	1,250 - 2,499	1,234,638	748,186	433,478	2,416,302	1,710	2,233	1,791	1,860
COSTS $		46,119,817	17,573,167	9,257,128	72,950,112	63,878	52,457	38,253	56,159
WELLS		284	113	336	733				
FOOTAGE	2,500 - 3,749	879,871	337,957	1,021,103	2,238,931	3,098	2,991	3,039	3,054
COSTS $		38,290,604	14,108,729	21,015,253	73,414,586	134,826	124,856	62,545	100,156
WELLS		103	66	133	302				
FOOTAGE	3,750 - 4,999	442,034	271,139	577,212	1,290,385	4,292	4,108	4,340	4,273
COSTS $		34,922,559	34,689,348	32,841,493	102,453,400	339,054	525,596	246,929	339,250
WELLS		234	104	347	685				
FOOTAGE	5,000 - 7,499	1,470,539	641,120	2,139,741	4,251,400	6,284	6,165	6,166	6,206
COSTS $		188,942,439	101,195,683	95,039,570	385,177,692	807,446	973,035	273,889	562,303
WELLS		207	187	309	703				
FOOTAGE	7,500 - 9,999	1,798,739	1,681,333	2,747,071	6,227,143	8,690	8,991	8,890	8,858
COSTS $		293,376,099	264,220,899	240,711,895	798,308,893	1,417,276	1,412,946	779,003	1,135,575
WELLS		222	179	331	732				
FOOTAGE	10,000 - 12,499	2,459,703	2,002,019	3,708,411	8,170,133	11,080	11,184	11,204	11,161
COSTS $		483,448,775	353,430,814	404,868,169	1,241,747,758	2,177,697	1,974,474	1,223,167	1,696,377
WELLS		88	111	240	439				
FOOTAGE	12,500 - 14,999	1,187,600	1,519,007	3,235,318	5,941,925	13,495	13,685	13,480	13,535
COSTS $		295,734,659	376,780,748	519,984,572	1,192,499,979	3,360,621	3,394,421	2,166,603	2,716,401
WELLS		22	64	102	188				
FOOTAGE	15,000 - 17,499	346,818	1,005,518	1,618,809	2,971,145	15,764	15,711	15,871	15,804
COSTS $		103,289,372	320,857,597	342,132,989	766,279,958	4,694,972	5,013,400	3,354,245	4,075,957
WELLS		10	9	32	51				
FOOTAGE	17,500 - 19,999	184,037	165,316	584,226	933,579	18,404	18,368	18,257	18,305
COSTS $		54,179,444	56,351,659	182,536,402	293,067,505	5,417,945	6,261,296	5,704,263	5,746,422
WELLS		1	3	4	8				
FOOTAGE	20,000 & OVER	22,856	62,439	81,867	167,162	22,856	20,813	20,467	20,895
COSTS $		15,805,677	31,160,251	31,955,714	78,921,642	15,805,677	10,386,750	7,988,929	9,865,205
TOTAL WELLS		3,187	1,177	2,316	6,680				
TOTAL FOOTAGE		11,391,805	8,440,568	16,395,156	36,227,529	3,574	7,171	7,079	5,423
TOTAL COSTS $		1,596,234,501	1,571,809,140	1,867,793,431	5,055,837,072	500,858	1,335,437	815,109	756,862

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

LOUISIANA - NORTH

Table 23

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		1,289	3	230	1,522				
FOOTAGE	0 - 1,249	1,359,344	3,153	242,060	1,604,557	1,055	1,051	1,052	1,054
COSTS $		41,395,820	57,494	3,345,758	44,799,072	32,115	19,165	14,547	29,434
WELLS		679	333	229	1,241				
FOOTAGE	1,250 - 2,499	1,148,558	744,866	407,288	2,300,712	1,692	2,237	1,779	1,854
COSTS $		37,142,221	17,244,483	5,051,844	59,438,548	54,701	51,785	22,060	47,896
WELLS		241	106	313	660				
FOOTAGE	2,500 - 3,749	744,010	316,150	946,816	2,006,976	3,087	2,983	3,025	3,041
COSTS $		25,771,130	8,558,175	12,330,825	46,660,130	106,934	80,738	39,396	70,697
WELLS		53	46	103	202				
FOOTAGE	3,750 - 4,999	222,657	182,789	444,521	849,967	4,201	3,974	4,316	4,208
COSTS $		8,357,254	5,275,535	6,084,205	19,716,994	157,684	114,686	59,070	97,609
WELLS		105	33	236	374				
FOOTAGE	5,000 - 7,499	641,270	201,068	1,422,076	2,264,414	6,107	6,093	6,026	6,055
COSTS $		28,615,791	9,412,432	24,774,440	62,802,663	272,531	285,225	104,976	167,922
WELLS		23	69	65	157				
FOOTAGE	7,500 - 9,999	192,643	616,571	567,149	1,376,563	8,384	8,936	8,725	8,768
COSTS $		13,231,563	49,528,326	20,211,272	82,971,161	575,285	717,802	310,943	528,479
WELLS		19	39	38	96				
FOOTAGE	10,000 - 12,499	207,437	433,327	417,390	1,058,154	10,918	11,111	10,984	11,022
COSTS $		25,157,194	59,483,892	23,933,085	108,574,171	1,324,063	1,525,228	629,818	1,130,981
WELLS		--	10	4	14				
FOOTAGE	12,500 - 14,999	--	138,633	51,712	190,345	--	13,863	12,928	13,596
COSTS $		--	34,748,260	5,594,556	40,342,816	--	3,474,826	1,398,639	2,881,630
WELLS		--	--	2	2				
FOOTAGE	15,000 - 17,499	--	--	32,147	32,147	--	--	16,074	16,074
COSTS $		--	--	5,624,556	5,624,556	--	--	2,812,278	2,812,278
WELLS		--	--	1	1				
FOOTAGE	17,500 - 19,999	--	--	17,532	17,532	--	--	17,532	17,532
COSTS $		--	--	4,010,383	4,010,383	--	--	4,010,383	4,010,383
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		2,409	639	1,221	4,269				
TOTAL FOOTAGE		4,516,119	2,636,557	4,548,691	11,701,367	1,875	4,126	3,725	2,741
TOTAL COSTS $		179,670,973	184,308,597	110,960,924	474,940,494	74,583	288,433	90,877	111,253

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

LOUISIANA - SOUTH

Table 24

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS: OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	AVERAGE DEPTH AND COST PER WELL: OIL	GAS	DRY	TOTAL
WELLS		5	2	8	15				
FOOTAGE	0 - 1,249	5,626	2,262	4,989	12,877	1,125	1,131	624	858
COSTS $		729,236	344,212	647,390	1,720,838	145,847	172,106	80,924	114,723
WELLS		43	2	12	57				
FOOTAGE	1,250 - 2,499	86,080	3,320	24,053	113,453	2,002	1,660	2,004	1,990
COSTS $		8,977,596	328,684	3,442,186	12,748,466	208,781	164,342	286,849	223,657
WELLS		41	3	17	61				
FOOTAGE	2,500 - 3,749	128,824	9,057	55,289	193,170	3,142	3,019	3,252	3,167
COSTS $		9,508,780	619,863	2,660,555	12,789,198	231,921	206,621	156,503	209,659
WELLS		43	5	18	66				
FOOTAGE	3,750 - 4,999	187,934	22,348	77,801	288,083	4,371	4,470	4,322	4,365
COSTS $		16,389,292	1,451,632	12,858,675	30,699,599	381,146	290,326	714,371	465,145
WELLS		54	13	62	129				
FOOTAGE	5,000 - 7,499	340,336	83,135	403,451	826,922	6,303	6,395	6,507	6,410
COSTS $		31,186,136	5,950,441	18,678,856	55,815,433	577,521	457,726	301,272	432,678
WELLS		99	48	160	307				
FOOTAGE	7,500 - 9,999	855,408	437,301	1,433,779	2,726,488	8,640	9,110	8,961	8,881
COSTS $		75,292,848	38,348,228	69,849,230	183,490,306	760,534	798,921	436,558	597,688
WELLS		91	84	207	382				
FOOTAGE	10,000 - 12,499	1,001,790	944,297	2,331,236	4,277,323	11,009	11,242	11,262	11,197
COSTS $		102,947,800	106,964,971	145,389,213	355,301,984	1,131,295	1,273,393	702,363	930,110
WELLS		38	50	160	248				
FOOTAGE	12,500 - 14,999	514,493	686,188	2,158,888	3,359,569	13,539	13,724	13,493	13,547
COSTS $		67,743,766	115,416,775	198,775,450	381,935,991	1,782,731	2,308,336	1,242,347	1,540,065
WELLS		12	39	71	122				
FOOTAGE	15,000 - 17,499	189,990	615,957	1,131,003	1,936,950	15,833	15,794	15,930	15,877
COSTS $		36,987,733	131,324,793	167,914,279	336,226,805	3,082,311	3,367,303	2,364,990	2,755,958
WELLS		8	7	24	39				
FOOTAGE	17,500 - 19,999	148,594	130,150	437,815	716,559	18,574	18,593	18,242	18,373
COSTS $		40,747,387	40,791,513	116,184,978	197,723,878	5,093,424	5,827,359	4,841,041	5,069,843
WELLS		1	3	2	6				
FOOTAGE	20,000 & OVER	22,856	62,439	40,410	125,705	22,856	20,813	20,205	20,951
COSTS $		15,805,677	31,160,251	17,430,469	64,396,397	15,805,677	10,386,750	8,715,235	10,732,733
TOTAL WELLS		435	256	741	1,432				
TOTAL FOOTAGE		3,481,931	2,996,454	8,098,714	14,577,099	8,004	11,705	10,929	10,180
TOTAL COSTS $		406,316,251	472,701,363	753,831,281	1,632,848,895	934,060	1,846,490	1,017,316	1,140,258

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

LOUISIANA - OFFSHORE

Table 25

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	1	2	3				
FOOTAGE	0 - 1,249	--	1,119	871	1,990	--	1,119	436	663
COSTS $		--	1,038,539	3,457,098	4,495,637	--	1,038,539	1,728,549	1,498,546
WELLS		--	--	1	1				
FOOTAGE	1,250 - 2,499	--	--	2,137	2,137	--	--	2,137	2,137
COSTS $		--	--	763,098	763,098	--	--	763,098	763,098
WELLS		2	4	6	12				
FOOTAGE	2,500 - 3,749	7,037	12,750	18,998	38,785	3,519	3,188	3,166	3,232
COSTS $		3,010,694	4,930,691	6,023,873	13,965,258	1,505,347	1,232,673	1,003,979	1,163,772
WELLS		7	15	12	34				
FOOTAGE	3,750 - 4,999	31,443	66,002	54,890	152,335	4,492	4,400	4,574	4,480
COSTS $		10,176,013	27,962,181	13,898,613	52,036,807	1,453,716	1,864,145	1,158,218	1,530,494
WELLS		75	58	49	182				
FOOTAGE	5,000 - 7,499	488,933	356,917	314,214	1,160,064	6,519	6,154	6,413	6,374
COSTS $		129,140,512	85,832,810	51,586,274	266,559,596	1,721,874	1,479,876	1,052,781	1,464,613
WELLS		85	70	84	239				
FOOTAGE	7,500 - 9,999	750,488	627,461	746,143	2,124,092	8,829	8,964	8,883	8,887
COSTS $		204,851,688	176,344,345	150,651,393	531,847,426	2,410,020	2,519,205	1,793,469	2,225,303
WELLS		112	56	86	254				
FOOTAGE	10,000 - 12,499	1,250,476	624,395	959,785	2,834,656	11,165	11,150	11,160	11,160
COSTS $		355,343,761	186,981,951	235,545,871	777,871,603	3,172,712	3,338,964	2,738,906	3,062,487
WELLS		50	51	76	177				
FOOTAGE	12,500 - 14,999	673,107	694,186	1,024,718	2,392,011	13,462	13,611	13,483	13,514
COSTS $		227,990,893	226,615,713	315,614,566	770,221,172	4,559,818	4,443,446	4,152,823	4,351,532
WELLS		10	25	29	64				
FOOTAGE	15,000 - 17,499	156,828	389,561	455,659	1,002,048	15,683	15,582	15,712	15,657
COSTS $		66,301,639	189,532,804	168,594,154	424,428,597	6,630,164	7,581,312	5,813,592	6,631,697
WELLS		2	2	7	11				
FOOTAGE	17,500 - 19,999	35,443	35,166	128,879	199,488	17,722	17,583	18,411	18,135
COSTS $		13,432,057	15,560,146	62,341,041	91,333,244	6,716,029	7,780,073	8,905,863	8,303,022
WELLS		--	--	2	2				
FOOTAGE	20,000 & OVER	--	--	41,457	41,457	--	--	20,729	20,729
COSTS $		--	--	14,525,245	14,525,245	--	--	7,262,623	7,262,623
TOTAL WELLS		343	282	354	979				
TOTAL FOOTAGE		3,393,755	2,807,557	3,747,751	9,949,063	9,894	9,956	10,587	10,162
TOTAL COSTS $		1,010,247,277	914,799,180	1,023,001,226	2,948,047,683	2,945,327	3,243,969	2,889,834	3,011,285

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

MICHIGAN

Table 26

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		26	1	16	43				
FOOTAGE	0 - 1,249	20,763	713	14,744	36,220	799	713	922	842
COSTS $		2,604,497	43,628	554,160	3,202,285	100,173	43,628	34,635	74,472
WELLS		8	16	15	39				
FOOTAGE	1,250 - 2,499	17,262	24,921	27,179	69,362	2,158	1,558	1,812	1,779
COSTS $		1,155,178	1,524,886	1,355,539	4,035,603	144,397	95,305	90,369	103,477
WELLS		59	5	69	133				
FOOTAGE	2,500 - 3,749	181,775	16,361	225,535	423,671	3,081	3,272	3,269	3,185
COSTS $		11,222,827	1,014,120	11,946,152	24,183,099	190,217	202,824	173,133	181,828
WELLS		169	14	224	407				
FOOTAGE	3,750 - 4,999	745,645	63,996	981,483	1,791,124	4,412	4,571	4,382	4,401
COSTS $		44,531,927	3,973,749	40,996,122	89,501,798	263,503	283,839	183,018	219,906
WELLS		86	22	270	378				
FOOTAGE	5,000 - 7,499	540,269	143,263	1,690,903	2,374,435	6,282	6,512	6,263	6,282
COSTS $		35,106,315	11,502,332	62,563,157	109,171,804	408,213	522,833	231,715	288,814
WELLS		--	8	10	18				
FOOTAGE	7,500 - 9,999	--	62,796	82,312	145,108	--	7,850	8,231	8,062
COSTS $		--	5,179,819	5,513,437	10,693,256	--	647,477	551,344	594,070
WELLS		--	3	4	7				
FOOTAGE	10,000 - 12,499	--	32,442	44,975	77,417	--	10,814	11,244	11,060
COSTS $		--	5,132,521	8,676,124	13,808,645	--	1,710,840	2,169,031	1,972,664
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		348	69	608	1,025				
TOTAL FOOTAGE		1,505,714	344,492	3,067,131	4,917,337	4,327	4,993	5,045	4,797
TOTAL COSTS $		94,620,744	28,371,055	131,604,691	254,596,490	271,899	411,175	216,455	248,387

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

MISSISSIPPI

Table 27

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	--	--				
FOOTAGE	0 - 1,249	--	--	--	--				
COSTS $		--	--	--	--	--	--	--	--
						--	--	--	--
WELLS		--	4	13	17				
FOOTAGE	1,250 - 2,499	--	9,341	29,017	38,358	--	2,335	2,232	2,256
COSTS $		--	1,137,858	2,018,354	3,156,212	--	284,465	155,258	185,660
WELLS		3	0	17	28				
FOOTAGE	2,500 - 3,749	10,423	16,500	50,917	77,840	3,474	2,750	2,995	2,994
COSTS $		582,607	1,341,578	2,123,778	4,047,963	194,202	223,596	124,928	155,691
WELLS		23	5	41	69				
FOOTAGE	3,750 - 4,999	98,512	22,836	183,275	304,623	4,283	4,567	4,470	4,415
COSTS $		3,997,726	633,397	4,316,032	8,947,155	173,814	126,679	105,269	129,669
WELLS		54	7	156	217				
FOOTAGE	5,000 - 7,499	341,364	35,366	1,010,606	1,390,536	6,322	5,481	6,480	6,408
COSTS $		12,524,321	885,744	19,153,854	32,563,919	231,932	126,535	122,781	150,064
WELLS		25	1	40	66				
FOOTAGE	7,500 - 9,999	221,534	8,953	337,053	567,540	8,861	8,953	8,426	8,599
COSTS $		11,724,235	288,738	9,322,723	21,335,746	468,971	288,738	233,068	323,269
WELLS		45	6	82	133				
FOOTAGE	10,000 - 12,499	507,266	69,500	921,787	1,498,553	11,273	11,583	11,241	11,267
COSTS $		36,410,113	3,097,381	35,051,117	74,558,611	809,114	516,230	427,453	560,591
WELLS		14	7	31	52				
FOOTAGE	12,500 - 14,999	185,052	99,170	417,665	701,887	13,218	14,167	13,473	13,498
COSTS $		19,033,357	10,492,668	25,412,843	54,938,868	1,359,526	1,498,953	819,769	1,056,517
WELLS		3	11	8	22				
FOOTAGE	15,000 - 17,499	49,347	173,658	129,048	352,053	16,449	15,787	16,131	16,002
COSTS $		7,945,388	23,859,840	13,001,969	44,807,197	2,648,463	2,169,076	1,625,246	2,036,691
WELLS		1	2	2	5				
FOOTAGE	17,500 - 19,999	18,060	36,105	37,005	91,170	18,060	18,053	18,503	18,234
COSTS $		3,813,220	6,468,725	4,689,451	14,971,396	3,813,220	3,234,363	2,344,726	2,994,279
WELLS		--	2	2	4				
FOOTAGE	20,000 & OVER	--	45,437	42,496	87,933	--	22,719	21,248	21,983
COSTS $		--	33,152,177	8,566,518	41,718,695	--	16,576,089	4,283,259	10,429,674
TOTAL WELLS		168	51	392	611				
TOTAL FOOTAGE		1,431,558	519,866	3,159,069	5,110,493	8,521	10,193	8,059	8,364
TOTAL COST $		96,031,017	81,358,106	123,656,639	301,045,762	571,613	1,595,257	315,451	492,710

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

Table 28

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		4	18	9	31				
FOOTAGE	0 - 1,249	4,136	18,964	6,999	30,099	1,034	1,054	778	971
COSTS $		86,021	848,431	175,989	1,150,441	21,505	49,357	19,554	37,111
WELLS		142	84	61	287				
FOOTAGE	1,250 - 2,499	228,174	135,427	103,112	466,713	1,607	1,612	1,690	1,626
COSTS $		5,437,936	5,098,777	2,586,038	13,122,751	38,295	60,700	42,394	45,724
WELLS		33	4	26	63				
FOOTAGE	2,500 - 3,749	90,507	12,623	78,860	181,990	2,743	3,156	3,033	2,889
COSTS $		2,418,805	623,236	2,799,595	5,841,636	73,297	155,809	107,677	92,724
WELLS		27	1	31	59				
FOOTAGE	3,750 - 4,999	126,372	4,895	138,727	269,994	4,680	4,895	4,475	4,576
COSTS $		6,009,513	327,965	5,656,762	11,994,240	222,575	327,965	182,476	203,292
WELLS		67	--	88	155				
FOOTAGE	5,000 - 7,499	414,956	--	534,789	949,745	6,193	--	6,077	6,127
COSTS $		32,076,203	--	28,591,088	60,667,291	478,749	--	324,899	391,402
WELLS		63	--	45	108				
FOOTAGE	7,500 - 9,999	570,210	--	386,213	956,423	9,051	--	8,583	8,856
COSTS $		40,052,948	--	27,009,614	67,062,562	635,761	--	600,214	620,950
WELLS		34	--	29	63				
FOOTAGE	10,000 - 12,499	392,047	--	327,306	719,353	11,531	--	11,286	11,418
COSTS $		33,420,293	--	34,079,352	67,499,645	982,950	--	1,175,150	1,071,423
WELLS		14	--	9	23				
FOOTAGE	12,500 - 14,999	179,614	--	114,956	294,570	12,830	--	12,773	12,807
COSTS $		14,326,419	--	11,047,990	25,374,409	1,023,316	--	1,227,555	1,103,235
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	1	1				
FOOTAGE	17,500 - 19,999	--	--	17,774	17,774	--	--	17,774	17,774
COSTS $		--	--	11,027,443	11,027,443	--	--	11,027,443	11,027,443
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		384	107	299	790				
TOTAL FOOTAGE		2,006,016	171,909	1,708,736	3,886,661	5,224	1,607	5,715	4,920
TOTAL COSTS $		133,828,138	6,938,409	122,973,871	263,740,418	348,511	64,845	411,284	333,849

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

NEBRASKA

Table 29

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
		---	---	---	---	---	---	---	---
WELLS		--	--	--	--				
FOOTAGE	0 - 1,249	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		2	--	3	5				
FOOTAGE	1,250 - 2,499	4,824	--	5,625	10,449	2,412	--	1,875	2,090
COSTS $		159,452	--	84,980	244,432	79,726	--	28,327	48,886
WELLS		16	3	20	39				
FOOTAGE	2,500 - 3,749	54,087	8,953	67,435	130,475	3,380	2,984	3,372	3,346
COSTS $		2,530,976	233,494	1,132,251	3,896,721	158,186	77,831	56,613	99,916
WELLS		88	1	81	170				
FOOTAGE	3,750 - 4,999	371,501	4,950	356,200	732,651	4,222	4,950	4,398	4,310
COSTS $		13,892,120	136,669	6,713,767	20,742,556	157,865	136,669	82,886	122,015
WELLS		30	1	100	131				
FOOTAGE	5,000 - 7,499	186,134	5,228	602,976	794,336	6,204	5,228	6,030	6,064
COSTS $		6,413,651	143,603	10,906,508	17,463,762	213,788	143,603	109,065	133,311
WELLS		--	--	3	3				
FOOTAGE	7,500 - 9,999	--	--	23,676	23,676	--	--	7,892	7,892
COSTS $		--	--	553,676	553,676	--	--	184,559	184,559
WELLS		--	--	--	--				
FOOTAGE	10,000 - 12,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		136	5	207	348				
TOTAL FOOTAGE		616,544	19,131	1,055,912	1,691,587	4,533	3,826	5,101	4,861
TOTAL COSTS $		22,996,199	513,766	19,391,182	42,901,147	169,090	102,753	93,677	123,279

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

NEW MEXICO - TOTAL

Table 30

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		3	2	17	22				
FOOTAGE	0 - 1,249	2,499	1,656	10,548	14,703	833	828	620	668
COSTS $		91,870	45,316	825,593	962,779	30,623	22,658	48,564	43,763
WELLS		37	26	28	91				
FOOTAGE	1,250 - 2,499	71,943	45,795	55,491	173,229	1,944	1,761	1,982	1,904
COSTS $		5,010,863	2,278,058	4,770,482	12,059,403	135,429	87,618	170,374	132,521
WELLS		160	40	43	243				
FOOTAGE	2,500 - 3,749	503,299	127,311	130,374	760,984	3,146	3,183	3,032	3,132
COSTS $		35,022,042	7,996,416	10,035,453	53,053,911	218,888	199,910	233,383	218,329
WELLS		211	78	43	332				
FOOTAGE	3,750 - 4,999	908,012	337,796	182,404	1,428,212	4,303	4,331	4,242	4,302
COSTS $		55,302,667	20,151,981	12,631,180	88,085,828	262,098	258,359	293,748	265,319
WELLS		225	138	29	392				
FOOTAGE	5,000 - 7,499	1,384,093	901,507	182,466	2,468,066	6,152	6,533	6,292	6,296
COSTS $		81,102,308	48,757,762	12,410,405	142,300,475	360,455	353,535	427,945	363,011
WELLS		133	87	27	247				
FOOTAGE	7,500 - 9,999	1,151,645	702,281	234,156	2,088,082	8,659	8,072	8,672	8,454
COSTS $		74,586,750	44,399,730	14,546,507	133,532,987	560,803	510,342	538,760	540,619
WELLS		103	30	50	183				
FOOTAGE	10,000 - 12,499	1,092,666	350,861	548,142	1,991,669	10,608	11,695	10,963	10,883
COSTS $		70,266,910	26,782,538	33,192,385	130,241,833	682,203	892,751	663,848	711,704
WELLS		9	18	11	38				
FOOTAGE	12,500 - 14,999	120,390	240,796	147,117	508,303	13,377	13,378	13,374	13,376
COSTS $		9,866,053	21,329,736	10,956,205	42,151,994	1,096,228	1,184,985	996,019	1,109,263
WELLS		1	15	3	19				
FOOTAGE	15,000 - 17,499	15,376	231,591	48,061	295,028	15,376	15,439	16,020	15,528
COSTS $		1,666,346	29,768,509	9,768,380	41,203,235	1,666,346	1,984,567	3,256,127	2,168,591
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		882	434	251	1,567				
TOTAL FOOTAGE		5,249,923	2,939,594	1,538,759	9,728,276	5,952	6,773	6,131	6,208
TOTAL COSTS $		332,915,809	201,540,046	109,136,590	643,592,445	377,456	464,378	434,807	410,716

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

NEW MEXICO - WEST

Table 31

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		2	2	7	11	717	828	717	737
FOOTAGE	0 - 1,249	1,434	1,656	5,016	8,106	24,149	22,658	50,463	40,623
COSTS $		48,297	45,316	353,238	446,851				
WELLS		8	23	12	43	1,782	1,734	2,027	1,825
FOOTAGE	1,250 - 2,499	14,259	39,890	24,329	78,478	81,967	85,396	101,127	89,148
COSTS $		655,738	1,964,115	1,213,525	3,833,378				
WELLS		3	29	8	40	3,026	3,088	2,870	3,040
FOOTAGE	2,500 - 3,749	9,077	89,551	22,956	121,584	155,572	189,918	160,995	181,558
COSTS $		466,716	5,507,626	1,287,958	7,262,300				
WELLS		27	17	5	49	4,646	4,526	4,181	4,557
FOOTAGE	3,750 - 4,999	125,449	76,945	20,903	223,297	260,694	246,745	597,505	290,223
COSTS $		7,038,731	4,194,662	2,987,526	14,220,919				
WELLS		129	121	4	254	6,376	6,634	6,293	6,498
FOOTAGE	5,000 - 7,499	822,511	802,704	25,172	1,650,387	347,163	351,586	605,916	353,345
COSTS $		44,764,064	42,541,955	2,423,663	89,749,702				
WELLS		36	76	2	114	8,001	8,022	7,922	8,014
FOOTAGE	7,500 - 9,999	288,043	609,654	15,844	913,541	632,248	503,591	1,130,405	555,216
COSTS $		22,760,921	38,272,900	2,260,809	63,294,630				
WELLS		--	--	1	1	--	--	10,200	10,200
FOOTAGE	10,000 - 12,499	--	--	10,200	10,200	--	--	1,088,540	1,088,540
COSTS $		--	--	1,088,540	1,088,540				
WELLS		--	--	--	--	--	--	--	--
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--				
WELLS		--	--	1	1	--	--	16,665	16,665
FOOTAGE	15,000 - 17,499	--	--	16,665	16,665	--	--	3,799,620	3,799,620
COSTS $		--	--	3,799,620	3,799,620				
WELLS		--	--	--	--	--	--	--	--
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--				
WELLS		--	--	--	--	--	--	--	--
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--				
TOTAL WELLS		205	268	40	513	6,150	6,046	3,527	5,891
TOTAL FOOTAGE		1,260,773	1,620,400	141,085	3,022,258	369,534	345,248	385,372	358,082
TOTAL COSTS $		75,754,487	92,526,574	15,414,879	183,695,940				

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

NEW MEXICO - EAST

Table 32

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		1	--	10	11				
FOOTAGE	0 - 1,249	1,065	--	5,532	6,597	1,065	--	553	600
COSTS $		43,573	--	472,355	515,928	43,573	--	47,236	46,903
WELLS		29	3	16	48				
FOOTAGE	1,250 - 2,499	57,684	5,905	31,162	94,751	1,989	1,968	1,948	1,974
COSTS $		4,355,125	313,943	3,556,957	8,226,025	150,177	104,648	222,310	171,376
WELLS		157	11	35	203				
FOOTAGE	2,500 - 3,749	494,222	37,760	107,418	639,400	3,148	3,433	3,069	3,150
COSTS $		34,555,326	2,488,790	8,747,495	45,791,611	220,098	226,254	249,928	225,574
WELLS		184	61	38	283				
FOOTAGE	3,750 - 4,999	782,563	260,851	161,501	1,204,915	4,253	4,276	4,250	4,258
COSTS $		48,263,936	15,957,319	9,643,654	73,864,909	262,304	261,595	253,780	261,007
WELLS		96	17	25	138				
FOOTAGE	5,000 - 7,499	561,582	98,803	157,294	817,679	5,850	5,812	6,292	5,925
COSTS $		36,318,224	6,245,807	9,986,742	52,550,773	378,315	367,400	399,470	380,803
WELLS		97	11	25	133				
FOOTAGE	7,500 - 9,999	863,602	92,627	218,312	1,174,541	8,903	8,421	8,732	8,831
COSTS $		51,825,829	6,126,830	12,285,698	70,238,357	534,287	556,985	491,428	528,108
WELLS		103	30	49	182				
FOOTAGE	10,000 - 12,499	1,092,666	350,861	537,942	1,981,469	10,608	11,695	10,978	10,887
COSTS $		70,266,910	26,782,531	32,103,845	129,153,293	682,203	892,751	655,181	709,634
WELLS		9	18	11	38				
FOOTAGE	12,500 - 14,999	120,390	240,796	147,117	508,303	13,377	13,378	13,374	13,376
COSTS $		9,866,053	21,329,736	10,956,205	42,151,994	1,096,228	1,184,985	996,019	1,109,263
WELLS		1	15	2	18				
FOOTAGE	15,000 - 17,499	15,376	231,591	31,396	278,363	15,376	15,439	15,698	15,465
COSTS $		1,666,346	29,768,509	5,968,760	37,403,615	1,666,346	1,984,567	2,984,380	2,077,979
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		677	166	211	1,054				
TOTAL FOOTAGE		3,969,150	1,319,194	1,397,674	6,706,018	5,892	7,947	6,624	6,362
TOTAL COSTS $		257,161,322	109,013,472	93,721,711	459,896,505	379,854	656,708	444,179	436,334

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

NORTH DAKOTA

Table 33

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	4	4				
FOOTAGE	0 - 1,249	--	--	1,851	1,851	--	--	463	463
COSTS $		--	--	87,791	87,791	--	--	21,948	21,948
WELLS		--	2	1	3				
FOOTAGE	1,250 - 2,499	--	3,374	1,599	4,973	--	1,687	1,599	1,658
COSTS $		--	375,358	34,865	410,223	--	187,679	34,865	136,741
WELLS		10	--	24	34				
FOOTAGE	2,500 - 3,749	32,475	--	81,924	114,399	3,248	--	3,414	3,365
COSTS $		1,567,040	--	2,138,635	3,705,675	156,704	--	89,110	108,990
WELLS		23	--	34	57				
FOOTAGE	3,750 - 4,999	98,208	--	149,713	247,921	4,270	--	4,403	4,349
COSTS $		5,919,011	--	4,155,980	10,074,991	257,348	--	122,235	176,754
WELLS		65	--	66	131				
FOOTAGE	5,000 - 7,499	400,901	--	399,595	800,496	6,168	--	6,054	6,111
COSTS $		24,642,154	--	13,200,669	37,842,823	379,110	--	200,010	288,877
WELLS		130	--	93	223				
FOOTAGE	7,500 - 9,999	1,211,054	--	836,946	2,048,000	9,316	--	8,999	9,184
COSTS $		88,356,477	--	38,532,702	126,889,179	679,665	--	414,330	569,010
WELLS		72	--	65	137				
FOOTAGE	10,000 - 12,499	815,318	--	723,720	1,539,038	11,324	--	11,134	11,234
COSTS $		72,994,805	--	41,245,931	114,240,736	1,013,817	--	634,553	833,874
WELLS		59	2	34	95				
FOOTAGE	12,500 - 14,999	800,053	27,175	459,965	1,287,193	13,560	13,588	13,528	13,549
COSTS $		89,595,997	3,732,070	35,315,048	128,643,115	1,518,576	1,866,035	1,038,678	1,354,138
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		359	4	321	684				
TOTAL FOOTAGE		3,358,009	30,549	2,655,313	6,043,871	9,354	7,637	8,272	8,836
TOTAL COSTS $		283,075,484	4,107,428	134,711,621	421,894,533	788,511	1,026,857	419,662	616,809

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1954

OKLAHOMA

Table 34

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	0 - 1,249	512	146	179	837				
FOOTAGE		447,947	127,222	141,730	716,899	875	871	792	857
COSTS $		16,923,399	4,195,169	3,205,243	24,323,811	33,054	28,734	17,906	29,061
WELLS	1,250 - 2,499	1,090	234	397	1,721				
FOOTAGE		1,967,645	447,904	751,170	3,166,719	1,805	1,914	1,892	1,840
COSTS $		86,693,837	17,153,550	19,622,064	123,469,451	79,536	73,306	49,426	71,743
WELLS	2,500 - 3,749	980	206	422	1,608				
FOOTAGE		3,039,051	642,715	1,315,067	4,996,853	3,101	3,120	3,116	3,107
COSTS $		139,082,822	26,068,571	36,132,503	201,283,896	141,921	126,546	85,622	125,177
WELLS	3,750 - 4,999	551	169	448	1,168				
FOOTAGE		2,444,539	736,781	1,979,494	5,160,814	4,437	4,360	4,419	4,419
COSTS $		119,648,667	31,047,376	59,509,450	210,405,493	217,511	183,712	132,834	180,142
WELLS	5,000 - 7,499	755	311	598	1,664				
FOOTAGE		4,599,941	2,018,037	3,569,532	10,187,510	6,093	6,489	5,969	6,122
COSTS $		237,866,776	102,981,703	121,754,176	462,602,655	315,055	331,131	203,602	278,006
WELLS	7,500 - 9,999	642	365	247	1,254				
FOOTAGE		5,540,580	3,126,893	2,119,837	10,787,310	8,630	8,567	8,582	8,602
COSTS $		342,023,749	189,828,751	85,032,824	616,885,324	532,747	520,079	344,262	491,934
WELLS	10,000 - 12,499	186	142	81	409				
FOOTAGE		2,016,437	1,584,121	918,329	4,518,887	10,841	11,156	11,337	11,049
COSTS $		161,897,272	139,267,599	60,798,614	361,963,485	870,415	980,758	750,600	884,996
WELLS	12,500 - 14,999	21	111	61	193				
FOOTAGE		278,666	1,492,292	811,294	2,582,252	13,270	13,444	13,300	13,380
COSTS $		30,531,982	173,753,604	71,389,101	275,674,687	1,453,904	1,565,348	1,170,313	1,428,366
WELLS	15,000 - 17,499	4	42	32	78				
FOOTAGE		66,638	666,589	514,057	1,247,284	16,660	15,871	16,064	15,991
COSTS $		12,462,056	117,901,409	90,320,335	220,683,800	3,115,514	2,807,177	2,822,511	2,829,280
WELLS	17,500 - 19,999	1	19	18	38				
FOOTAGE		19,385	347,015	332,910	699,310	19,385	18,264	18,495	18,403
COSTS $		4,000,621	96,860,273	82,683,911	183,544,805	4,000,621	5,097,909	4,593,551	4,830,127
WELLS	20,000 & OVER	--	3	5	8				
FOOTAGE		--	68,314	118,967	187,281	--	22,771	23,793	23,410
COSTS $		--	40,239,402	74,143,413	114,382,815	--	13,413,134	14,828,683	14,297,852
TOTAL WELLS		4,742	1,748	2,488	8,976				
TOTAL FOOTAGE		20,420,829	11,257,883	12,572,407	44,251,119	4,306	6,440	5,053	4,929
TOTAL COSTS $		1,151,331,181	939,297,407	704,591,634	2,795,220,222	242,794	537,356	283,196	311,341

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

TEXAS - TOTAL

Table 35

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		1,873	85	1,044	3,002				
FOOTAGE	0 - 1,249	1,313,361	77,700	731,728	2,122,789	701	914	701	707
COSTS $		40,011,812	2,676,430	16,085,703	58,773,945	21,362	31,487	15,408	19,578
WELLS		2,455	191	1,167	3,813				
FOOTAGE	1,250 - 2,499	4,215,756	349,783	2,085,684	6,651,223	1,717	1,831	1,787	1,744
COSTS $		180,304,823	13,924,891	46,569,655	240,799,369	73,444	72,905	39,905	63,152
WELLS		2,693	238	815	3,746				
FOOTAGE	2,500 - 3,749	8,610,598	747,887	2,555,492	11,913,977	3,197	3,142	3,136	3,180
COSTS $		420,646,086	29,009,234	63,267,353	512,922,673	156,200	121,888	77,629	136,925
WELLS		2,361	471	1,150	3,982				
FOOTAGE	3,750 - 4,999	10,584,397	2,072,888	5,089,928	17,747,213	4,483	4,401	4,426	4,457
COSTS $		461,461,942	81,632,047	135,125,238	678,219,227	195,452	173,316	117,500	170,321
WELLS		2,847	771	1,550	5,168				
FOOTAGE	5,000 - 7,499	17,484,901	4,874,368	9,406,383	31,765,652	6,142	6,322	6,069	6,147
COSTS $		863,906,382	272,960,793	317,974,329	1,454,861,504	303,444	354,061	205,145	281,513
WELLS		2,075	739	1,098	3,912				
FOOTAGE	7,500 - 9,999	17,780,019	6,429,010	9,405,813	33,614,842	8,569	8,700	8,566	8,593
COSTS $		1,084,835,390	583,222,370	489,674,314	2,157,732,074	522,812	789,205	445,969	551,568
WELLS		501	628	430	1,559				
FOOTAGE	10,000 - 12,499	5,488,009	6,938,662	4,717,387	17,144,058	10,954	11,049	10,971	10,997
COSTS $		465,149,927	886,809,291	382,975,474	1,734,934,692	928,443	1,412,117	890,641	1,112,851
WELLS		52	177	133	362				
FOOTAGE	12,500 - 14,999	681,634	2,373,743	1,806,825	4,862,202	13,108	13,411	13,585	13,431
COSTS $		92,759,452	499,546,449	276,258,711	868,564,612	1,783,836	2,822,296	2,077,133	2,399,350
WELLS		4	36	62	102				
FOOTAGE	15,000 - 17,499	65,420	580,068	990,525	1,636,013	16,355	16,113	15,976	16,039
COSTS $		25,800,411	215,919,359	286,056,751	527,776,521	6,450,103	5,997,760	4,613,819	5,174,280
WELLS		2	14	18	34				
FOOTAGE	17,500 - 19,999	35,618	254,540	332,701	622,859	17,809	18,181	18,483	18,319
COSTS $		14,918,977	101,1[illegible]121	127,016,044	243,070,142	7,459,489	7,223,937	7,056,447	7,149,122
WELLS		1	8	3	12				
FOOTAGE	20,000 & OVER	20,660	180,390	68,273	269,323	20,660	22,549	22,758	22,444
COSTS $		3,669,430	67,992,093	45,194,114	116,855,637	3,669,430	8,499,012	15,064,705	9,737,970
TOTAL WELLS		14,864	3,358	7,470	25,692				
TOTAL FOOTAGE		66,280,373	24,879,039	37,190,739	128,350,151	4,459	7,409	4,979	4,996
TOTAL COSTS $		3,653,464,632	2,754,848,078	2,186,197,686	8,594,510,396	245,793	820,384	292,664	334,521

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

TEXAS RRC DIST. 1

Table 36

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
		811	4	72	887				
WELLS		497,626	3,968	57,465	559,039	614	987	798	630
FOOTAGE	0 - 1,249	15,575,447	247,911	1,919,301	17,842,659	19,329	61,978	26,657	20,116
COSTS $									
		907	12	129	1,048				
WELLS		1,477,464	20,888	234,844	1,733,196	1,629	1,741	1,820	1,654
FOOTAGE	1,250 - 2,499	41,007,372	736,490	7,126,833	48,870,695	45,212	61,374	55,247	46,632
COSTS $									
		243	10	74	327				
WELLS		720,419	31,657	226,941	979,017	2,965	3,166	3,067	2,994
FOOTAGE	2,500 - 3,749	24,411,478	1,315,416	6,619,701	32,346,595	100,459	131,542	89,455	98,919
COSTS $									
		74	7	40	121				
WELLS		312,668	30,249	172,598	515,515	4,225	4,321	4,315	4,260
FOOTAGE	3,750 - 4,999	12,908,193	1,403,281	4,959,601	19,271,075	174,435	200,469	123,990	159,265
COSTS $									
		111	13	77	201				
WELLS		706,731	77,539	466,374	1,250,644	6,367	5,965	6,057	6,222
FOOTAGE	5,000 - 7,499	36,991,252	3,782,928	14,795,655	55,569,835	333,255	290,994	192,151	276,467
COSTS $									
		116	33	31	180				
WELLS		1,027,906	300,992	269,923	1,598,821	8,861	9,121	8,707	8,882
FOOTAGE	7,500 - [illegible]	63,747,066	21,748,257	11,159,562	96,654,885	549,544	659,038	359,986	536,972
COSTS $									
		13	17	5	35				
WELLS		132,257	177,429	55,212	364,898	10,174	10,437	11,042	10,426
FOOTAGE	10,000 - 12,499	8,009,811	20,444,955	4,366,442	32,841,208	616,139	1,202,644	877,288	938,320
COSTS $									
		--	1	2	3				
WELLS		--	12,528	27,673	40,201	--	12,528	13,837	13,400
FOOTAGE	12,500 - 14,999	--	2,823,848	3,729,232	6,553,080	--	2,823,648	1,864,616	2,184,360
COSTS $									
		--	--	--	--				
WELLS		--	--	--	--	--	--	--	--
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $									
		--	1	--	1				
WELLS		--	18,372	--	18,372	--	18,372	--	18,372
FOOTAGE	17,500 - 19,999	--	8,529,156	--	8,529,156	--	8,529,156	--	8,529,156
COSTS $									
		--	--	1	1				
WELLS		--	--	24,031	24,031	--	--	24,031	24,031
FOOTAGE	20,000 & OVER	--	--	9,685,214	9,685,214	--	--	9,685,214	9,685,214
COSTS $									
		2,275	98	431	2,804				
TOTAL WELLS		4,875,071	673,602	1,535,061	7,083,734	2,143	6,873	3,562	2,526
TOTAL FOOTAGE		202,750,619	61,032,242	64,381,541	328,164,402	89,121	622,778	149,377	117,034
TOTAL COSTS $									

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

Table 37

TEXAS RRC DIST. 2

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
		---	---	---	---	---	---	---	---
WELLS		1	3	8	12				
FOOTAGE	0 - 1,249	1,037	2,923	6,805	10,765	1,037	974	851	897
COSTS $		74,021	192,435	310,895	577,351	74,021	64,145	38,862	48,113
WELLS		--	9	10	19				
FOOTAGE	1,250 - 2,499	--	13,375	18,432	31,807	--	1,486	1,843	1,674
COSTS $		--	549,775	413,434	963,209	--	61,086	41,343	50,695
WELLS		8	19	33	60				
FOOTAGE	2,500 - 3,749	25,558	61,564	106,948	194,070	3,195	3,240	3,241	3,235
COSTS $		937,465	1,798,343	2,240,328	4,976,136	117,183	94,650	67,889	82,936
WELLS		26	53	42	121				
FOOTAGE	3,750 - 4,999	113,350	234,654	186,883	534,887	4,360	4,427	4,450	4,421
COSTS $		4,555,806	6,704,439	3,871,900	15,132,145	175,223	126,499	92,188	125,059
WELLS		85	67	104	256				
FOOTAGE	5,000 - 7,499	502,041	397,988	630,278	1,530,307	5,906	5,940	6,060	5,978
COSTS $		26,595,838	16,266,846	16,967,266	59,829,950	312,892	242,789	163,147	233,711
WELLS		19	51	58	128				
FOOTAGE	7,500 - 9,999	157,247	455,954	501,842	1,115,043	8,276	8,940	8,652	8,711
COSTS $		10,998,866	45,144,368	20,078,668	76,221,902	578,888	885,184	346,184	595,484
WELLS		2	31	22	55				
FOOTAGE	10,000 - 12,499	20,660	345,056	242,882	608,598	10,330	11,131	11,040	11,065
COSTS $		2,950,309	51,421,739	23,596,106	77,968,154	1,475,155	1,658,766	1,072,550	1,417,603
WELLS		1	15	12	28				
FOOTAGE	12,500 - 14,999	13,518	204,959	163,742	382,219	13,518	13,664	13,645	13,651
COSTS $		5,072,765	36,981,673	31,422,670	73,477,108	5,072,765	2,465,445	2,618,556	2,624,183
WELLS		--	1	1	2				
FOOTAGE	15,000 - 17,499	--	16,725	15,000	31,725	--	16,725	15,000	15,863
COSTS $		--	6,138,075	4,022,045	10,160,120	--	6,138,075	4,022,045	5,080,060
WELLS		--	--	1	1				
FOOTAGE	17,500 - 19,999	--	--	18,227	18,227	--	--	18,227	18,227
COSTS $		--	--	10,852,099	10,852,099	--	--	10,852,099	10,852,099
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		142	249	291	682				
TOTAL FOOTAGE		833,411	1,733,198	1,891,039	4,457,648	5,869	6,961	6,498	6,536
TOTAL COSTS $		51,185,070	165,197,693	113,775,411	330,158,174	360,458	663,445	390,981	484,103

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

TEXAS RRC DIST. 3

Table 38

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		30	4	25	59				
FOOTAGE	0 - 1,249	28,859	2,991	17,707	49,557	962	748	708	840
COSTS $		1,614,961	56,252	771,206	2,442,419	53,832	14,063	30,848	41,397
WELLS		47	4	30	81				
FOOTAGE	1,250 - 2,499	92,126	6,856	58,808	157,792	1,960	1,714	1,960	1,948
COSTS $		7,067,418	240,234	1,877,216	9,184,868	150,371	60,059	62,574	113,393
WELLS		86	12	34	132				
FOOTAGE	2,500 - 3,749	283,666	33,965	107,108	424,739	3,298	2,830	3,150	3,218
COSTS $		19,545,391	1,426,072	3,592,255	24,565,718	227,272	119,006	105,655	186,104
WELLS		133	16	64	213				
FOOTAGE	3,750 - 4,999	573,268	70,665	283,025	926,958	4,310	4,417	4,422	4,352
COSTS $		38,447,857	5,005,586	9,960,421	53,413,864	289,082	312,849	155,632	250,769
WELLS		161	56	122	339				
FOOTAGE	5,000 - 7,499	975,231	355,978	762,314	2,093,523	6,057	6,357	6,248	6,176
COSTS $		66,608,509	23,744,792	28,087,074	118,440,375	413,717	424,014	230,222	349,382
WELLS		463	99	231	813				
FOOTAGE	7,500 - 9,999	4,165,747	859,346	2,040,243	7,065,336	8,625	8,680	8,832	8,690
COSTS $		282,651,853	74,746,021	103,059,151	460,457,025	585,201	755,010	446,144	566,368
WELLS		146	105	108	359				
FOOTAGE	10,000 - 12,499	1,604,266	1,171,382	1,184,720	3,960,368	10,988	11,156	10,970	11,032
COSTS $		138,820,537	146,925,055	88,513,527	374,259,119	950,826	1,399,286	819,570	1,042,505
WELLS		13	40	33	86				
FOOTAGE	12,500 - 14,999	175,982	533,721	451,135	1,160,838	13,537	13,343	13,671	13,498
COSTS $		29,277,835	93,469,050	62,079,460	184,846,345	2,252,141	2,337,226	1,881,196	2,149,376
WELLS		--	8	19	27				
FOOTAGE	15,000 - 17,499	--	130,534	303,335	433,869	--	16,317	15,965	16,069
COSTS $		--	43,177,459	52,208,403	95,385,862	--	5,397,183	2,747,811	3,532,810
WELLS		--	--	5	5				
FOOTAGE	17,500 - 19,999	--	--	92,629	92,629	--	--	18,526	18,526
COSTS $		--	--	24,704,889	24,704,889	--	--	4,940,978	4,940,978
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		1,099	344	671	2,114				
TOTAL FOOTAGE		7,899,147	3,165,438	5,301,024	16,365,609	7,188	9,202	7,900	7,742
TOTAL COSTS $		584,034,361	388,812,521	374,853,602	1,347,700,484	531,423	1,130,269	558,649	637,512

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

TEXAS RRC DIST. 4

Table 39

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	8	5	13				
FOOTAGE	0 - 1,249	--	4,921	4,532	9,453	--	615	906	727
COSTS $		--	351,526	370,547	722,073	--	43,941	74,109	55,544
WELLS		17	6	30	53				
FOOTAGE	1,250 - 2,499	36,244	13,306	63,415	112,965	2,132	2,218	2,114	2,131
COSTS $		1,961,952	412,531	3,425,411	5,799,944	115,409	68,764	114,180	109,433
WELLS		26	10	32	68				
FOOTAGE	2,500 - 3,749	80,481	30,886	99,731	211,098	3,095	3,089	3,117	3,104
COSTS $		4,403,663	975,009	3,476,566	8,860,258	169,372	97,801	108,705	130,298
WELLS		19	23	36	78				
FOOTAGE	3,750 - 4,999	86,941	103,595	161,928	352,164	4,560	4,504	4,498	4,515
COSTS $		4,811,573	4,131,658	4,200,854	13,144,085	253,241	179,637	116,690	168,514
WELLS		101	152	178	431				
FOOTAGE	5,000 - 7,499	643,453	973,470	1,116,440	2,733,363	6,371	6,404	6,272	6,342
COSTS $		29,922,307	52,154,383	35,084,626	117,161,816	296,260	343,124	197,105	271,837
WELLS		48	247	140	435				
FOOTAGE	7,500 - 9,999	389,761	2,139,041	1,189,585	3,718,387	8,120	8,660	8,497	8,548
COSTS $		19,143,708	193,861,448	59,951,098	272,956,254	398,827	784,864	428,222	627,486
WELLS		1	193	59	253				
FOOTAGE	10,000 - 12,499	10,500	2,120,280	635,292	2,766,072	10,500	10,986	10,768	10,933
COSTS $		931,993	290,973,065	53,750,028	345,655,086	931,993	1,507,633	911,017	1,366,226
WELLS		1	36	13	50				
FOOTAGE	12,500 - 14,999	13,748	482,309	176,234	672,291	13,748	13,397	13,556	13,446
COSTS $		1,938,468	97,336,250	23,105,531	122,380,949	1,938,468	2,703,804	1,777,349	2,447,619
WELLS		--	13	10	23				
FOOTAGE	15,000 - 17,499	--	209,469	158,608	368,077	--	16,113	15,861	16,003
COSTS $		--	71,188,792	33,039,238	104,228,030	--	5,476,061	3,303,924	4,531,654
WELLS		--	4	8	12				
FOOTAGE	17,500 - 19,999	--	72,609	149,268	221,877	--	18,152	18,659	18,490
COSTS $		--	28,504,258	51,023,698	79,527,956	--	7,126,065	6,377,963	6,627,330
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		213	692	511	1,416				
TOTAL FOOTAGE		1,200,828	6,149,886	3,755,033	11,105,747	5,919	8,887	7,348	7,885
TOTAL COSTS $		63,113,634	739,893,170	267,429,597	1,070,436,451	296,308	1,069,210	523,346	755,958

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

TEXAS RRC DIST. 5

Table 40

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		72	1	41	114				
FOOTAGE	0 - 1,249	66,745	710	36,467	103,922	927	710	889	912
COSTS $		1,348,034	4,932	329,013	1,681,979	18,723	4,932	8,025	14,754
WELLS		46	4	22	72				
FOOTAGE	1,250 - 2,499	66,276	7,520	35,450	109,246	1,441	1,880	1,611	1,517
COSTS $		1,947,727	328,059	613,479	2,889,265	42,342	82,015	27,885	40,129
WELLS		16	--	18	34				
FOOTAGE	2,500 - 3,749	48,329	--	57,997	106,326	3,021	--	3,222	3,127
COSTS $		2,292,387	--	1,490,366	3,782,753	143,274	--	82,798	111,257
WELLS		12	1	22	35				
FOOTAGE	3,750 - 4,999	50,154	4,200	91,414	145,768	4,180	4,200	4,155	4,165
COSTS $		2,721,528	290,434	2,641,502	5,653,464	226,794	290,434	120,068	161,528
WELLS		4	4	27	35				
FOOTAGE	5,000 - 7,499	27,199	26,260	172,534	226,003	6,800	6,565	6,392	6,458
COSTS $		1,836,624	2,061,658	5,932,933	9,831,215	459,156	515,415	219,738	280,892
WELLS		16	26	37	79				
FOOTAGE	7,500 - 9,999	135,155	226,411	317,458	684,057	8,637	8,785	8,580	8,659
COSTS $		12,660,004	20,773,502	14,293,683	47,727,189	791,250	798,981	386,316	604,142
WELLS		14	60	22	96				
FOOTAGE	10,000 - 12,499	147,730	675,198	238,744	1,061,672	10,552	11,253	10,852	11,059
COSTS $		12,666,321	81,352,510	13,072,167	107,090,998	904,737	1,355,875	594,189	1,115,531
WELLS		--	32	8	40				
FOOTAGE	12,500 - 14,999	--	421,475	111,495	532,970	--	13,171	13,937	13,324
COSTS $		--	65,170,538	10,303,481	75,474,019	--	2,036,579	1,287,935	1,886,851
WELLS		--	2	3	5				
FOOTAGE	15,000 - 17,499	--	30,655	48,656	79,311	--	15,328	16,219	15,862
COSTS $		--	6,432,386	4,494,206	10,926,592	--	3,216,193	1,498,069	2,185,319
WELLS		--	1	--	1				
FOOTAGE	17,500 - 19,999	--	17,858	--	17,858	--	17,858	--	17,858
COSTS $		--	7,300,124	--	7,300,124	--	7,300,124	--	7,300,124
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		180	131	200	511				
TOTAL FOOTAGE		544,621	1,412,287	1,110,265	3,067,173	3,026	10,781	5,551	6,002
TOTAL COSTS $		35,472,625	183,714,143	53,170,830	272,357,598	197,070	1,402,398	265,854	532,989

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

TEXAS RRC DIST. 6

Table 41

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		68	--	24	92				
FOOTAGE	0 - 1,249	31,313	--	10,996	42,309	460	--	458	460
COSTS $		1,254,250	--	670,829	1,925,079	18,445	--	27,951	20,925
WELLS		11	--	29	40				
FOOTAGE	1,250 - 2,499	21,306	--	51,106	72,412	1,937	--	1,762	1,810
COSTS $		1,074,869	--	3,660,264	4,735,153	97,717	--	126,216	118,379
WELLS		12	--	4	16				
FOOTAGE	2,500 - 3,749	44,236	--	13,452	57,688	3,686	--	3,363	3,606
COSTS $		2,225,598	--	799,626	3,025,224	185,467	--	199,907	189,077
WELLS		103	3	20	126				
FOOTAGE	3,750 - 4,999	453,142	13,392	92,686	559,220	4,399	4,464	4,634	4,438
COSTS $		24,950,360	887,621	4,781,608	30,619,589	242,237	295,874	239,080	243,013
WELLS		87	64	84	239				
FOOTAGE	5,000 - 7,499	555,666	455,750	523,128	1,534,544	6,387	6,702	6,228	6,421
COSTS $		32,298,507	29,935,696	22,686,989	84,921,192	371,247	440,231	270,083	355,319
WELLS		144	119	89	352				
FOOTAGE	7,500 - 9,999	1,202,039	1,036,996	740,816	2,979,851	8,347	8,714	8,324	8,465
COSTS $		79,354,851	90,468,381	35,845,109	205,668,341	551,075	760,239	402,754	584,285
WELLS		21	119	55	195				
FOOTAGE	10,000 - 12,499	224,683	1,312,461	608,660	2,145,804	10,699	11,029	11,067	11,004
COSTS $		15,709,573	150,365,743	40,511,116	206,606,432	748,075	1,263,746	736,566	1,059,520
WELLS		--	7	3	10				
FOOTAGE	12,500 - 14,999	--	92,451	40,072	132,523	--	13,207	13,357	13,252
COSTS $		--	14,048,700	3,876,468	17,925,168	--	2,006.957	1,292,156	1,792,517
WELLS		1	--	3	4				
FOOTAGE	15,000 - 17,499	16,587	--	47,477	64,064	16,587	--	15,826	16,016
COSTS $		1,787,442	--	7,070,950	8,858,392	1,787,442	--	2,356,983	2,214,598
WELLS		--	2	1	3				
FOOTAGE	17,500 - 19,999	--	36,915	17,525	54,440	--	18,458	17,525	18,147
COSTS $		--	24,547,828	3,959,975	28,507,803	--	12,273,914	3,959,975	9,502,601
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		447	318	312	1,077				
TOTAL FOOTAGE		2,548,972	2,947,965	2,145,918	7,642,855	5,702	9,270	6,874	7,096
TOTAL COSTS $		158,655,470	310,273,969	123,862,934	592,792,373	354,934	975,704	396,997	550,411

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

TEXAS RRC DIST. 7B

Table 42

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		388	58	525	971				
FOOTAGE	0 - 1,249	277,199	56,592	327,636	661,427	714	976	624	681
COSTS $		9,373,107	1,602,885	5,933,718	16,909,710	24,157	27,636	11,302	17,415
WELLS		428	114	477	1,019				
FOOTAGE	1,250 - 2,499	727,128	205,027	858,137	1,790,292	1,699	1,798	1,799	1,757
COSTS $		23,211,502	6,767,491	15,530,019	45,529,012	54,232	59,539	32,558	44,680
WELLS		461	136	356	953				
FOOTAGE	2,500 - 3,749	1,482,078	424,396	1,122,885	3,029,359	3,215	3,121	3,154	3,179
COSTS $		54,345,130	15,334,069	23,352,632	93,031,831	117,885	112,751	65,597	97,620
WELLS		591	257	483	1,331				
FOOTAGE	3,750 - 4,999	2,561,557	1,106,258	2,119,650	5,787,465	4,334	4,305	4,389	4,348
COSTS $		97,831,767	43,694,960	49,751,143	191,277,870	165,536	170,019	103,004	143,710
WELLS		256	59	283	596				
FOOTAGE	5,000 - 7,499	1,511,130	333,359	1,655,498	3,499,987	5,903	5,650	5,850	5,853
COSTS $		63,464,517	17,847,599	42,206,728	123,518,844	247,908	302,502	149,140	206,553
WELLS		2	1	2	5				
FOOTAGE	7,500 - 9,999	15,049	7,550	15,000	37,599	7,525	7,550	7,500	7,520
COSTS $		660,907	480,761	417,430	1,559,098	330,454	480,761	208,715	311,820
WELLS		--	--	--	--				
FOOTAGE	10,000 - 12,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		2,126	625	2,126	4,877				
TOTAL FOOTAGE		6,574,141	2,133,182	6,098,806	14,806,129	3,092	3,413	2,869	3,036
TOTAL COSTS $		248,886,930	85,747,765	137,191,670	471,826,365	117,068	137,196	64,530	96,745

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

TEXAS RRC DIST. 7C

Table 43

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		26	5	34	65				
FOOTAGE	0 - 1,249	25,609	4,198	28,697	58,504	985	840	844	900
COSTS $		1,244,808	183,676	1,600,385	3,028,869	47,877	36,735	47,070	46,598
WELLS		105	15	50	170				
FOOTAGE	1,250 - 2,499	210,275	27,097	94,025	331,397	2,003	1,806	1,881	1,949
COSTS $		9,606,026	1,075,713	3,680,455	14,362,194	91,486	71,714	73,609	84,483
WELLS		192	9	47	248				
FOOTAGE	2,500 - 3,749	558,963	28,408	144,635	732,006	2,911	3,156	3,077	2,952
COSTS $		25,465,736	1,270,815	4,730,792	31,467,343	132,634	141,202	100,655	126,884
WELLS		155	26	132	313				
FOOTAGE	3,750 - 4,999	690,111	117,211	588,142	1,395,464	4,452	4,508	4,456	4,458
COSTS $		30,114,337	4,789,275	17,325,571	52,229,183	194,286	184,203	131,254	166,866
WELLS		376	167	132	675				
FOOTAGE	5,000 - 7,499	2,548,937	1,105,484	801,483	4,455,904	6,779	6,620	6,072	6,601
COSTS $		120,285,806	42,041,265	25,896,562	188,823,633	319,909	255,337	196,186	279,739
WELLS		261	55	31	347				
FOOTAGE	7,500 - 9,999	2,166,472	461,996	261,753	2,890,221	8,301	8,400	8,444	8,329
COSTS $		111,037,351	15,927,114	10,567,167	137,531,632	425,430	289,584	340,876	396,345
WELLS		51	4	8	63				
FOOTAGE	10,000 - 12,499	552,859	45,653	85,345	683,857	10,840	11,413	10,668	10,855
COSTS $		40,671,091	2,800,236	4,969,733	48,441,060	797,472	700,059	621,217	768,906
WELLS		2	2	1	5				
FOOTAGE	12,500 - 14,999	25,968	28,642	12,650	67,260	12,984	14,321	12,650	13,452
COSTS $		3,949,550	4,166,000	896,383	9,011,933	1,974,775	2,083,000	896,383	1,802,387
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		1,168	283	435	1,886				
TOTAL FOOTAGE		6,779,194	1,818,689	2,016,730	10,614,613	5,804	6,426	4,636	5,628
TOTAL COSTS $		342,374,705	72,854,094	69,667,048	484,895,847	293,129	257,435	160,154	257,103

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

TEXAS RRC DIST. 8

Table 44

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		8	--	4	12				
FOOTAGE	0 - 1,249	8,615	--	2,425	11,040	1,077	--	606	920
COSTS $		2,124,055	--	373,547	2,497,602	265,507	--	93,387	208,134
WELLS		291	1	15	307				
FOOTAGE	1,250 - 2,499	496,402	1,550	28,313	526,265	1,706	1,550	1,888	1,714
COSTS $		61,143,135	178,250	2,457,743	63,779,128	210,114	178,250	163,850	207,750
WELLS		715	9	26	750				
FOOTAGE	2,500 - 3,749	2,315,507	29,015	86,724	2,431,246	3,238	3,224	3,336	3,242
COSTS $		132,103,636	1,977,605	4,200,107	138,281,348	184,760	219,734	161,543	184,375
WELLS		474	3	43	520				
FOOTAGE	3,750 - 4,999	2,169,164	12,852	190,606	2,372,622	4,576	4,284	4,433	4,563
COSTS $		106,044,245	653,505	8,739,204	115,436,954	223,722	217,835	203,237	221,994
WELLS		364	19	58	441				
FOOTAGE	5,000 - 7,499	2,305,915	106,947	350,823	2,763,725	6,335	5,631	6,049	6,267
COSTS $		119,352,840	6,645,472	16,296,013	142,294,325	327,892	349,762	280,966	322,663
WELLS		560	12	107	679				
FOOTAGE	7,500 - 9,999	4,971,608	98,573	915,261	5,985,442	8,878	8,214	8,554	8,815
COSTS $		281,456,086	7,341,435	43,207,087	332,004,608	502,600	611,786	403,805	488,961
WELLS		156	16	57	229				
FOOTAGE	10,000 - 12,499	1,709,797	182,305	616,138	2,508,240	10,960	11,394	10,809	10,953
COSTS $		138,675,489	24,930,251	38,121,867	201,727,607	888,945	1,558,141	668,805	880,907
WELLS		25	9	13	47				
FOOTAGE	12,500 - 14,999	324,211	118,680	175,284	618,175	12,968	13,187	13,483	13,153
COSTS $		32,519,070	17,064,000	17,949,079	67,532,149	1,300,763	1,896,000	1,380,698	1,436,854
WELLS		--	3	3	6				
FOOTAGE	15,000 - 17,499	--	49,050	48,431	97,481	--	16,350	16,144	16,247
COSTS $		--	10,277,403	11,117,351	21,394,754	--	3,425,801	3,705,784	3,565,792
WELLS		--	5	1	6				
FOOTAGE	17,500 - 19,999	--	90,843	19,100	109,943	--	18,169	19,100	18,324
COSTS $		--	27,937,234	4,518,867	32,456,101	--	5,587,447	4,518,867	5,409,350
WELLS		--	4	--	4				
FOOTAGE	20,000 & OVER	--	90,579	--	90,579	--	22,645	--	22,645
COSTS $		--	27,998,801	--	27,998,801	--	6,999,701	--	6,999,701
TOTAL WELLS		2,593	81	327	3,001				
TOTAL FOOTAGE		14,301,219	780,434	2,433,105	17,514,758	5,515	9,635	7,441	5,836
TOTAL COSTS $		873,418,556	125,003,956	146,980,865	1,145,403,377	336,837	1,543,259	449,483	381,674

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

TEXAS RRC DIST. 8A

Table 45

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	1	1				
FOOTAGE	0 - 1,249	--	--	500	500	--	--	500	500
COSTS $		--	--	11,000	11,000	--	--	11,000	11,000
WELLS		32	--	5	37				
FOOTAGE	1,250 - 2,499	58,524	--	9,043	67,567	1,829	--	1,809	1,826
COSTS $		2,142,224	--	167,123	2,309,347	66,945	--	33,425	62,415
WELLS		225	2	40	267				
FOOTAGE	2,500 - 3,749	689,566	6,811	126,831	823,208	3,065	3,406	3,171	3,083
COSTS $		32,396,546	396,593	3,151,517	35,944,656	143,985	198,297	78,788	134,624
WELLS		380	9	63	452				
FOOTAGE	3,750 - 4,999	1,810,155	43,607	278,741	2,132,503	4,764	4,845	4,424	4,718
COSTS $		69,812,517	1,406,622	7,815,137	79,034,276	183,717	156,291	124,050	174,855
WELLS		778	3	119	900				
FOOTAGE	5,000 - 7,499	4,596,897	17,599	719,944	5,334,440	5,909	5,866	6,050	5,927
COSTS $		216,367,300	565,004	24,212,579	241,144,883	278,107	188,335	203,467	267,939
WELLS		252	--	106	358				
FOOTAGE	7,500 - 9,999	2,075,996	--	887,204	2,963,200	8,238	--	8,370	8,277
COSTS $		123,914,077	--	33,924,265	157,838,342	491,723	--	320,040	440,889
WELLS		47	--	49	96				
FOOTAGE	10,000 - 12,499	540,532	--	547,545	1,088,077	11,501	--	11,174	11,334
COSTS $		37,490,566	--	22,247,331	59,737,897	797,672	--	454,027	622,270
WELLS		7	1	15	23				
FOOTAGE	12,500 - 14,999	90,252	13,000	196,574	299,826	12,893	13,000	13,105	13,036
COSTS $		6,117,297	2,497,423	9,275,135	17,889,855	873,900	2,497,423	618,342	777,820
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		1,721	15	398	2,134				
TOTAL FOOTAGE		9,861,922	81,017	2,766,382	12,709,321	5,730	5,401	6,951	5,956
TOTAL COSTS $		488,240,527	4,865,642	100,804,087	593,910,256	283,696	324,376	253,277	278,308

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

TEXAS RRC DIST. 9

Table 46

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		469	2	302	773				
FOOTAGE	0 - 1,249	376,358	1,417	235,561	613,336	802	709	780	793
COSTS $		7,303,129	36,313	2,781,195	10,121,137	15,572	18,407	9,209	13,093
WELLS		484	5	360	849				
FOOTAGE	1,250 - 2,499	834,152	10,826	613,030	1,458,008	1,723	2,165	1,703	1,717
COSTS $		20,883,475	187,232	6,729,033	27,799,740	43,148	37,446	18,692	32,744
WELLS		143	2	134	279				
FOOTAGE	2,500 - 3,749	445,362	5,880	405,122	856,364	3,114	2,940	3,023	3,069
COSTS $		15,514,191	141,436	6,079,210	21,734,837	108,491	70,718	45,367	77,903
WELLS		342	66	197	605				
FOOTAGE	3,750 - 4,999	1,556,046	306,950	887,563	2,750,559	4,550	4,651	4,505	4,546
COSTS $		57,973,909	11,222,843	19,162,928	88,359,680	169,514	170,043	97,274	146,049
WELLS		467	133	310	910				
FOOTAGE	5,000 - 7,499	2,722,927	816,856	1,825,628	5,365,411	5,831	6,142	5,889	5,896
COSTS $		125,021,642	45,876,292	48,801,314	219,699,248	267,712	344,935	157,424	241,428
WELLS		68	6	146	220				
FOOTAGE	7,500 - 9,999	569,502	48,602	1,237,362	1,855,466	8,375	8,100	8,475	8,434
COSTS $		33,239,715	4,277,466	41,850,436	79,367,617	488,819	712,911	286,647	360,762
WELLS		16	--	1	17				
FOOTAGE	10,000 - 12,499	172,842	--	12,470	185,312	10,803	--	12,470	10,901
COSTS $		15,709,055	--	940,261	16,649,316	981,816	--	940,261	979,372
WELLS		--	1	1	2				
FOOTAGE	12,500 - 14,999	--	14,032	12,665	26,697	--	14,032	12,665	13,349
COSTS $		--	1,535,548	1,121,865	2,657,413	--	1,535,548	1,121,865	1,328,707
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		1,989	215	1,451	3,655				
TOTAL FOOTAGE		6,677,189	1,204,563	5,229,401	13,111,153	3,357	5,603	3,604	3,587
TOTAL COSTS $		275,645,116	63,277,630	127,466,242	466,388,988	138,585	294,315	87,847	127,603

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

TEXAS RRC DIST. 10

Table 47

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	2	2				
FOOTAGE	0 - 1,249	--	--	1,892	1,892	--	--	946	946
COSTS $		--	--	170,317	170,317	--	--	85,159	85,159
WELLS		87	20	10	117				
FOOTAGE	1,250 - 2,499	195,857	41,257	21,081	258,195	2,251	2,063	2,108	2,207
COSTS $		10,259,103	1,958,706	888,645	13,106,454	117,921	97,935	88,865	112,021
WELLS		566	29	16	611				
FOOTAGE	2,500 - 3,749	1,916,433	95,305	53,643	2,065,381	3,386	3,286	3,353	3,380
COSTS $		107,004,845	4,368,876	2,427,923	113,801,644	189,055	150,651	151,745	186,255
WELLS		52	6	7	65				
FOOTAGE	3,750 - 4,999	208,141	24,659	32,187	264,987	4,003	4,110	4,598	4,077
COSTS $		11,289,850	1,066,534	1,018,764	13,375,148	217,113	177,756	145,538	205,772
WELLS		55	22	43	120				
FOOTAGE	5,000 - 7,499	374,726	154,981	297,146	826,853	6,813	7,045	6,910	6,890
COSTS $		18,917,100	7,346,750	13,046,223	39,310,073	343,947	333,943	303,401	327,584
WELLS		100	65	80	245				
FOOTAGE	7,500 - 9,999	850,049	564,288	675,932	2,090,269	8,500	8,681	8,449	8,532
COSTS $		45,588,674	30,058,079	26,930,065	102,576,818	455,887	462,432	336,626	418,681
WELLS		28	63	21	112				
FOOTAGE	10,000 - 12,499	306,586	684,109	232,506	1,223,201	10,950	10,859	11,072	10,921
COSTS $		24,327,238	52,112,650	11,122,409	87,562,297	868,830	827,185	529,639	781,806
WELLS		--	12	11	23				
FOOTAGE	12,500 - 14,999	--	170,297	147,787	318,084	--	14,191	13,435	13,830
COSTS $		--	21,532,726	12,797,413	34,330,139	--	1,794,394	1,163,401	1,492,615
WELLS		1	3	2	6				
FOOTAGE	15,000 - 17,499	16,143	49,044	31,810	96,997	16,143	16,348	15,905	16,166
COSTS $		2,485,463	8,518,582	2,965,174	13,969,219	2,485,463	2,839,527	1,482,587	2,328,203
WELLS		1	1	--	2				
FOOTAGE	17,500 - 19,999	18,100	17,943	--	36,043	18,100	17,943	--	18,022
COSTS $		3,108,397	4,316,521	--	7,424,918	3,108,397	4,316,521	--	3,712,459
WELLS		1	4	1	6				
FOOTAGE	20,000 & OVER	20,660	89,811	23,476	133,947	20,660	22,453	23,476	22,325
COSTS $		3,669,430	39,993,292	4,240,242	47,902,964	3,669,430	9,998,323	4,240,242	7,983,828
TOTAL WELLS		891	225	193	1,309				
TOTAL FOOTAGE		3,906,695	1,891,694	1,517,460	7,315,849	4,385	8,408	7,862	5,589
TOTAL COSTS $		226,650,100	171,272,716	75,607,175	473,529,991	254,377	761,212	391,747	361,749

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1934

TEXAS - OFFSHORE

Table 48

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	1	1				
FOOTAGE	0 - 1,249	--	--	1,045	1,045	--	--	1,045	1,045
COSTS $		--	--	843,750	843,750	--	--	843,750	843,750
WELLS		--	1	--	1				
FOOTAGE	1,250 - 2,499	--	2,081	--	2,081	--	2,081	--	2,081
COSTS $		--	1,470,360	--	1,470,360	--	1,470,360	--	1,470,360
WELLS		--	--	1	1				
FOOTAGE	2,500 - 3,749	--	--	3,475	3,475	--	--	3,475	3,475
COSTS $		--	--	1,104,330	1,104,330	--	--	1,104,330	1,104,330
WELLS		--	1	1	2				
FOOTAGE	3,750 - 4,999	--	4,596	4,505	9,101	--	4,596	4,505	4,551
COSTS $		--	375,289	896,605	1,271,894	--	375,289	896,605	635,947
WELLS		2	8	13	23				
FOOTAGE	5,000 - 7,499	14,048	52,117	84,743	150,908	7,024	6,515	6,519	6,561
COSTS $		6,244,140	24,111,608	23,960,367	54,316,115	3,122,070	3,013,951	1,843,105	2,361,570
WELLS		6	25	40	71				
FOOTAGE	7,500 - 9,999	50,455	227,261	353,434	631,150	8,409	9,090	8,836	8,889
COSTS $		20,382,232	78,395,538	88,390,593	187,168,363	3,397,039	3,135,822	2,209,765	2,636,174
WELLS		6	20	23	49				
FOOTAGE	10,000 - 12,499	65,297	224,789	257,873	547,959	10,883	11,239	11,212	11,183
COSTS $		29,187,944	65,463,087	81,744,487	176,395,518	4,864,658	3,273,154	3,554,108	3,599,909
WELLS		3	21	21	45				
FOOTAGE	12,500 - 14,999	37,955	281,649	291,514	611,118	12,652	13,412	13,882	13,580
COSTS $		13,884,467	142,899,993	99,701,994	256,486,454	4,628,156	6,804,762	4,747,714	5,699,699
WELLS		2	6	21	29				
FOOTAGE	15,000 - 17,499	32,690	94,591	337,208	464,489	16,345	15,765	16,058	16,017
COSTS $		21,527,506	70,186,662	171,139,384	262,853,552	10,763,753	11,697,777	8,149,495	9,063,916
WELLS		1	--	2	3				
FOOTAGE	17,500 - 19,999	17,518	--	35,952	53,470	17,518	--	17,976	17,823
COSTS $		11,810,580	--	31,956,516	43,767,096	11,810,580	--	15,978,258	14,589,032
WELLS		--	--	1	1				
FOOTAGE	20,000 & OVER	--	--	20,766	20,766	--	--	20,766	20,766
COSTS $		--	--	31,268,658	31,268,658	--	--	31,268,659	31,268,659
TOTAL WELLS		20	82	124	226				
TOTAL FOOTAGE		217,963	887,084	1,390,515	2,495,562	10,898	10,818	11,214	11,042
TOTAL COSTS $		103,036,869	382,902,537	531,006,684	1,016,946,090	5,151,844	4,669,543	4,282,312	4,499,762

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

UTAH

Table 49

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		11	8	17	36				
FOOTAGE	0 - 1,249	2,549	8,397	12,613	23,559	232	1,050	742	654
COSTS $		1,201,311	1,241,320	1,121,246	3,563,877	109,210	155,165	65,956	98,997
WELLS		7	8	15	30				
FOOTAGE	1,250 - 2,499	14,501	15,667	28,869	59,037	2,072	1,958	1,925	1,968
COSTS $		4,644,709	1,613,775	1,605,715	7,864,199	663,530	201,722	107,048	262,140
WELLS		2	11	5	18				
FOOTAGE	2,500 - 3,749	5,953	35,299	17,361	58,613	2,977	3,209	3,472	3,256
COSTS $		1,500,662	2,266,679	998,213	4,765,554	750,331	206,062	199,643	264,753
WELLS		8	3	10	21				
FOOTAGE	3,750 - 4,999	32,997	12,574	44,110	89,681	4,125	4,191	4,411	4,271
COSTS $		5,636,208	703,016	2,866,943	9,206,167	704,526	234,339	286,694	438,389
WELLS		144	26	66	236				
FOOTAGE	5,000 - 7,499	876,616	169,766	404,539	1,450,921	6,088	6,529	6,129	6,148
COSTS $		63,582,860	12,986,086	19,659,487	96,228,433	441,548	499,465	297,871	407,748
WELLS		8	8	14	30				
FOOTAGE	7,500 - 9,999	68,257	64,503	117,862	250,622	8,532	8,063	8,419	8,354
COSTS $		7,479,164	6,316,714	14,344,732	28,140,610	934,896	789,589	1,024,624	938,020
WELLS		12	--	5	17				
FOOTAGE	10,000 - 12,499	133,750	--	57,950	191,700	11,146	--	11,590	11,276
COSTS $		19,324,796	--	7,854,291	27,179,087	1,610,400	--	1,570,858	1,598,770
WELLS		21	4	4	29				
FOOTAGE	12,500 - 14,999	286,290	57,269	53,126	396,685	13,633	14,317	13,282	13,679
COSTS $		51,113,097	29,317,305	15,327,330	95,757,732	2,433,957	7,329,327	3,831,833	3,301,991
WELLS		22	6	7	35				
FOOTAGE	15,000 - 17,499	352,890	91,257	109,633	553,780	16,040	15,210	15,662	15,822
COSTS $		54,825,309	39,244,750	40,249,999	134,320,058	2,492,060	6,540,792	5,750,000	3,837,716
WELLS		--	--	1	1				
FOOTAGE	17,500 - 19,999	--	--	18,505	18,505	--	--	18,505	18,505
COSTS $		--	--	5,006,599	5,006,599	--	--	5,006,599	5,006,599
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		235	74	144	453				
TOTAL FOOTAGE		1,773,803	454,732	864,568	3,093,103	7,548	6,145	6,004	6,828
TOTAL COSTS $		209,308,116	93,689,645	109,034,555	412,032,316	890,673	1,266,076	757,184	909,564

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

WYOMING

Table 50

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		101	1	41	143				
FOOTAGE	0 - 1,249	71,441	395	24,123	95,959	707	395	588	671
COSTS $		3,357,021	86,279	1,321,377	4,764,677	33,238	86,279	32,229	33,319
WELLS		51	3	30	84				
FOOTAGE	1,250 - 2,499	88,306	5,585	56,845	151,236	1,741	1,862	1,895	1,800
COSTS $		5,623,710	687,100	4,719,215	11,030,025	110,269	229,033	157,307	131,310
WELLS		50	4	38	92				
FOOTAGE	2,500 - 3,749	164,922	13,562	117,736	296,220	3,298	3,391	3,098	3,220
COSTS $		14,121,423	1,401,108	7,031,928	22,554,459	282,428	350,277	185,051	245,157
WELLS		83	3	47	133				
FOOTAGE	3,750 - 4,999	373,123	13,715	203,391	590,229	4,495	4,572	4,327	4,438
COSTS $		28,123,605	942,735	12,938,014	42,004,354	338,839	314,245	275,277	315,822
WELLS		184	17	166	367				
FOOTAGE	5,000 - 7,499	1,143,184	115,692	1,108,709	2,367,585	6,213	6,805	6,679	6,451
COSTS $		76,478,283	9,796,124	41,830,550	128,104,957	415,643	576,243	251,991	349,060
WELLS		237	39	247	523				
FOOTAGE	7,500 - 9,999	2,085,279	349,435	2,135,013	4,569,727	8,799	8,960	8,644	8,738
COSTS $		133,747,653	34,140,737	87,151,938	255,040,328	564,336	875,404	352,842	487,649
WELLS		96	34	129	259				
FOOTAGE	10,000 - 12,499	1,019,109	366,717	1,391,264	2,777,090	10,616	10,786	10,785	10,722
COSTS $		84,775,609	45,353,059	74,402,695	204,536,363	883,079	1,334,061	576,765	789,716
WELLS		26	15	32	73				
FOOTAGE	12,500 - 14,999	339,666	200,062	427,600	967,350	13,064	13,339	13,363	13,251
COSTS $		41,292,134	32,181,189	51,893,072	125,366,395	1,588,159	2,145,413	1,621,659	1,717,348
WELLS		3	11	14	28				
FOOTAGE	15,000 - 17,499	46,872	169,700	226,665	443,237	15,624	15,427	16,190	15,830
COSTS $		10,855,935	74,427,701	129,243,402	214,527,041	3,618,646	6,766,155	9,231,672	7,661,680
WELLS		--	1	1	2				
FOOTAGE	17,500 - 19,999	--	19,025	18,077	37,102	--	19,025	18,077	18,551
COSTS $		--	7,934,651	7,762,237	15,696,888	--	7,934,651	7,762,237	7,848,444
WELLS		--	1	--	1				
FOOTAGE	20,000 & OVER	--	22,403	--	22,403	--	22,403	--	22,403
COSTS $		--	17,796,294	--	17,796,294	--	17,796,295	--	17,796,295
TOTAL WELLS		831	129	745	1,705				
TOTAL FOOTAGE		5,332,404	1,276,311	5,709,423	12,318,138	6,417	9,894	7,664	7,225
TOTAL COSTS $		398,375,376	224,751,977	418,294,428	1,041,421,781	479,393	1,742,263	561,469	610,805

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

Table 51

APPALACHIAN*

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		1,076	127	56	1,259				
FOOTAGE	0 - 1,249	986,492	112,822	42,338	1,141,652	917	888	756	907
COSTS $		32,609,829	2,433,366	1,079,504	36,122,699	30,307	19,160	19,277	28,692
WELLS		532	423	33	988				
FOOTAGE	1,250 - 2,499	922,086	803,135	56,869	1,782,090	1,733	1,899	1,723	1,804
COSTS $		26,989,885	31,602,538	1,834,063	60,426,486	50,733	74,710	55,578	61,160
WELLS		544	1,696	104	2,344				
FOOTAGE	2,500 - 3,749	1,716,499	5,669,364	336,622	7,722,985	3,155	3,343	3,237	3,295
COSTS $		53,934,644	209,194,885	8,716,762	271,846,291	99,145	123,346	83,815	115,975
WELLS		170	2,332	89	2,591				
FOOTAGE	3,750 - 4,999	716,795	9,765,501	369,280	10,851,576	4,216	4,188	4,149	4,188
COSTS $		25,224,171	357,595,322	10,103,438	392,925,931	148,377	153,344	113,522	151,650
WELLS		155	1,478	45	1,678				
FOOTAGE	5,000 - 7,499	830,146	8,187,492	249,471	9,267,109	5,356	5,540	5,544	5,523
COSTS $		31,788,767	277,570,631	8,720,571	318,079,969	205,089	187,802	193,790	189,559
WELLS		--	9	1	10				
FOOTAGE	7,500 - 9,999	--	71,229	8,787	80,016	--	7,914	8,787	8,002
COSTS $		--	3,116,324	702,960	3,819,284	--	346,258	702,960	381,928
WELLS		--	--	--	--				
FOOTAGE	10,000 - 12,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	1	1				
FOOTAGE	12,500 - 14,999	--	--	12,885	12,885	--	--	12,885	12,885
COSTS $		--	--	2,734,212	2,734,212	--	--	2,734,212	2,734,212
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		2,477	6,065	329	8,871				
TOTAL FOOTAGE		5,172,018	24,610,043	1,076,252	30,858,313	2,088	4,058	3,271	3,479
TOTAL COSTS $		170,547,296	881,516,066	33,891,510	1,085,954,872	68,852	145,345	103,014	122,416

* Includes New York, Ohio, Pennsylvania, and West Virginia.

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

Table 52

OFFSHORE FED - TOTAL*

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	--	--				
FOOTAGE 0 - 1,249	--	--	--	--	--	--	--	--
COSTS $	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE 1,250 - 2,499	--	--	--	--	--	--	--	--
COSTS $	--	--	--	--	--	--	--	--
WELLS	--	2	3	5				
FOOTAGE 2,500 - 3,749	--	6,576	10,328	16,904	--	3,288	3,443	3,381
COSTS $	--	2,256,884	10,552,422	12,809,306	--	1,128,442	3,517,474	2,561,861
WELLS	--	--	2	2				
FOOTAGE 3,750 - 4,999	--	--	9,071	9,071	--	--	4,536	4,536
COSTS $	--	--	7,801,989	7,801,989	--	--	3,900,995	3,900,995
WELLS	1	--	6	7				
FOOTAGE 5,000 - 7,499	5,800	--	39,761	45,561	5,800	--	6,627	6,509
COSTS $	9,203,900	--	48,651,561	57,855,461	9,203,900	--	8,108,594	8,265,066
WELLS	3	--	14	17				
FOOTAGE 7,500 - 9,999	28,424	--	122,172	150,596	9,475	--	8,727	8,859
COSTS $	13,979,373	--	118,642,006	132,621,379	4,659,791	--	8,474,429	7,801,258
WELLS	2	1	18	21				
FOOTAGE 10,000 - 12,499	22,909	10,782	208,193	241,884	11,455	10,782	11,566	11,518
COSTS $	8,453,200	2,495,143	145,324,063	156,272,406	4,226,600	2,495,143	8,073,559	7,441,543
WELLS	--	--	18	18				
FOOTAGE 12,500 - 14,999	--	--	242,483	242,483	--	--	13,471	13,471
COSTS $	--	--	139,494,104	139,494,104	--	--	7,749,673	7,749,673
WELLS	1	--	6	7				
FOOTAGE 15,000 - 17,499	17,147	--	94,325	111,472	17,147	--	15,721	15,925
COSTS $	21,712,134	--	88,050,967	109,763,101	21,712,134	--	14,675,161	15,680,443
WELLS	--	--	1	1				
FOOTAGE 17,500 - 19,999	--	--	17,740	17,740	--	--	17,740	17,740
COSTS $	--	--	27,142,774	27,142,774	--	--	27,142,775	27,142,775
WELLS	--	--	2	2				
FOOTAGE 20,000 & OVER	--	--	43,448	43,448	--	--	21,724	21,724
COSTS $	--	--	62,239,280	62,239,280	--	--	31,119,641	31,119,641
TOTAL WELLS	7	3	70	80				
TOTAL FOOTAGE	74,280	17,358	787,521	879,159	10,611	5,786	11,250	10,989
TOTAL COSTS $	53,348,607	4,752,027	647,899,166	705,999,800	7,621,230	1,584,009	9,255,702	8,824,998

* Includes Offshore Federal Waters-Alaska, Offshore Federal Waters-Atlantic Coast, and Offshore Federal Waters-Pacific Coast, which are not shown separately.

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1984

OFFSHORE FED. - GULF NORTH

Table 53

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	--	--				
FOOTAGE	0 - 1,249	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	1,250 - 2,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	2	2	4				
FOOTAGE	2,500 - 3,749	--	6,576	6,692	13,268	--	3,288	3,346	3,317
COSTS $		--	2,256,634	1,872,348	4,129,232	--	1,128,442	936,174	1,032,308
WELLS		--	--	1	1				
FOOTAGE	3,750 - 4,999	--	--	4,120	4,120	--	--	4,120	4,120
COSTS $		--	--	1,212,332	1,212,332	--	--	1,212,332	1,212,332
WELLS		--	--	1	1				
FOOTAGE	5,000 - 7,499	--	--	7,229	7,229	--	--	7,229	7,229
COSTS $		--	--	4,523,217	4,523,217	--	--	4,523,217	4,523,217
WELLS		3	--	7	10				
FOOTAGE	7,500 - 9,999	28,424	--	60,847	89,271	9,475	--	8,692	8,927
COSTS $		13,979,373	--	43,310,618	57,289,991	4,659,791	--	6,187,231	5,728,999
WELLS		2	1	16	19				
FOOTAGE	10,000 - 12,499	22,909	10,782	184,967	218,658	11,455	10,782	11,560	11,508
COSTS $		8,453,200	2,495,143	114,701,396	125,649,739	4,226,600	2,495,143	7,168,838	6,613,144
WELLS		--	--	17	17				
FOOTAGE	12,500 - 14,999	--	--	229,983	229,983	--	--	13,528	13,528
COSTS $		--	--	126,489,529	126,489,529	--	--	7,440,561	7,440,561
WELLS		1	--	5	6				
FOOTAGE	15,000 - 17,499	17,147	--	78,325	95,472	17,147	--	15,665	15,912
COSTS $		21,712,134	--	54,562,803	76,274,937	21,712,134	--	10,912,561	12,712,490
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	2	2				
FOOTAGE	20,000 & OVER	--	--	43,448	43,448	--	--	21,724	21,724
COSTS $		--	--	62,239,280	62,239,280	--	--	31,119,641	31,119,641
TOTAL WELLS		6	3	51	60				
TOTAL FOOTAGE		68,480	17,358	615,611	701,449	11,413	5,786	12,071	11,691
TOTAL COSTS $		44,144,707	4,752,027	408,911,523	457,808,257	7,357,451	1,584,009	8,017,873	7,630,138

APPENDICES

APPENDIX A

JOINT ASSOCIATION SURVEY ON DRILLING COSTS

CONFIDENTIAL — WELLS DRILLED, FOOTAGE, AND COST IN THE U.S. — CONFIDENTIAL

PAGE

OPERATOR NAME – WELL NUMBER – LEASE NAME	STATE	SHORE	OP CODE	WELL IDENTIFICATION NUMBER
ABC OIL COMPANY 1 J. C. KANE	MONTANA	ON	999	25 017 23459 00 17

TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE	Y COORD or LONGITUDE
EXP-DRY	0	0	3456	08/84	031	15-N	053-E			

COUNTY NAME	LOCATION	TOTAL COST
CLUSTER	958 FNL 388 FWL	

OPERATOR NAME – WELL NUMBER – LEASE NAME	STATE	SHORE	OP CODE	WELL IDENTIFICATION NUMBER
ABC OIL COMPANY 3 HAYES	MONTANA	ON	999	25 033 10432 00 17

TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE	Y COORD or LONGITUDE
DEV-OIL	1	0	2335	04/84	017	019-N	044-E			

COUNTY NAME	LOCATION	TOTAL COST
GARFIELD	348 FSL 457 FWL	

OPERATOR NAME – WELL NUMBER – LEASE NAME	STATE	SHORE	OP CODE	WELL IDENTIFICATION NUMBER
ABC OIL COMPANY 2 B W BOWERS	MONTANA	ON	999	25 083 22106 00 17

TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE	Y COORD or LONGITUDE
DEV-DRY	0	0	10435	11/84	004	025-N	055-E			

COUNTY NAME	LOCATION	TOTAL COST
RICHLAND	120 FSL 234 FEL	

OPERATOR NAME – WELL NUMBER – LEASE NAME	STATE	SHORE	OP CODE	WELL IDENTIFICATION NUMBER

TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE	Y COORD or LONGITUDE

COUNTY NAME	LOCATION	TOTAL COST

OPERATOR NAME – WELL NUMBER – LEASE NAME	STATE	SHORE	OP CODE	WELL IDENTIFICATION NUMBER

TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE	Y COORD or LONGITUDE

COUNTY NAME	LOCATION	TOTAL COST

OPERATOR NAME – WELL NUMBER – LEASE NAME	STATE	SHORE	OP CODE	WELL IDENTIFICATION NUMBER

TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE	Y COORD or LONGITUDE

COUNTY NAME	LOCATION	TOTAL COST

OPERATOR NAME – WELL NUMBER – LEASE NAME	STATE	SHORE	OP CODE	WELL IDENTIFICATION NUMBER

TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE	Y COORD or LONGITUDE

COUNTY NAME	LOCATION	TOTAL COST

INDIVIDUAL SUBMITTING REPORT: _____

TELEPHONE NUMBER: AC _____ _____

INSTRUCTIONS AND DEFINITIONS FOR DRILLING COSTS

1. **WELLS TO BE REPORTED.** Report each domestic well completed by you as OPERATOR (whether actually drilled by you or drilled for you by a contractor), in the survey year. Report each well completed by you as operator regardless of the size of your working interest in the well. Do not report wells drilled by others in which you may have had only a part of a working interest regardless of the size of such interest. Do not report wells started in the survey year or in prior years, but not completed as of December 31 of the survey year. Do not report wells reentered for completion at shallower depths, old wells drilled deeper, old wells worked over, stratigraphic tests, core test, or service wells (including input wells).

2. **SHORE.** Enter "OFF" if well is located offshore; enter "ON" if it is onshore. An offshore well is one which is bottomed at, or produces from, a point which lies seaward of the coastline. If a state agency uses a different basis for classifying onshore and offshore wells, the state classification should be used. In general, the term "coastline" means the line of ordinary low water along that portion of the coast which is in direct contact with the open sea or the line marking the seaward limit of inland waters. For the purposes of the JAS Cook Inlet (Alaska) is classified as "offshore".

3. **OP CODE.** Make no entry. The API will supply the operator code.

4. **WELL IDENTIFICATION NUMBER.** Enter the STATE DESIGNATED API NUMBER if it is available. Where states do not assign API well numbers, or if you do not know the number, leave this item blank.

5. **TYPE.** Insert the classification for each well reported as either an exploratory (EXP) or a development (DEV) well. Exploratory wells include new-field wildcats, new-pool wildcats, deeper-pool tests, shallower-pool tests, and outposts (extensions). Development wells include all wells drilled to produce oil and gas from pools discovered by previous drilling.

   Subclassify all wells as either oil, gas or dry holes, e.g. "EXP-OIL", "DEV-GAS", "EXP-DRY". An oil well is a well completed for the production of crude oil from at least one oil zone or reservoir. A gas well is one which can produce hydrocarbons existing initially in a gaseous phase in the reservoir. So-called gas condensate wells should be reported as gas wells. A dry hole is an exploratory or development well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well. The state regulatory classification should be used, if available; if not available, use a classification by company engineers.

   Count MULTIPLE COMPLETIONS as one well. (See Item 6 for definition.)

6. **OIL ZONES, GAS ZONES.** Enter the total number of separately producing oil zones and gas zones (reservoirs).

   As noted under Item 5, a multiple completion should be reported as one well. A multiple completion well is a well equipped to produce oil and/or gas separately from more than one reservoir. SUCH WELLS CONTAIN MULTIPLE STRINGS OF TUBING OR OTHER EQUIPMENT WHICH PERMIT PRODUCTION FROM THE VARIOUS COMPLETIONS TO BE MEASURED AND ACCOUNTED FOR SEPARATELY.

   Report a multiple completion well as an oil well if oil is produced from at least one of several zones, even though gas and gas condensate may be produced from one or more zones in the same well. Report a multiple completion well as a gas well if oil is not produced from any of the several zones.

   For a dry hole enter the word "DRY".

7. **DEPTH.** Report for each well the total feet of penetration measured down the well bore. Include all plugged back footage, but exclude bypassed footage resulting from remedial sidetrack drilling operations. For OFFSHORE WELLS drilled from a platform or a barge over water and the reference point is above water, the depth of the water is included in the total length of the well bore.

8. **COMPLETION DATE.** Enter the month and year of completion.

9. **SECTION, TWP, RANGE.** Enter location data if appropriate for area.

10. **COUNTY NAME AND LOCATION.** For each onshore well reported provide the county name, and for state and federal offshore waters provide pseudo-county names. Under location enter the designated block numbers for state and federal offshore wells and any other available information that would be helpful in identifying well locations.

11. **TOTAL COST.** Report the TOTAL cost (tangible and intangible) of each well completed by you as operator in the survey year (whether actually drilled by you or drilled for you by contractors). The TOTAL of such costs should be reported even though you as operator had only a part of a working interest in the well.

    Do not report costs of wells drilled by others in which you had a working interest regardless of the size of such interest. The costs to be reported are those associated with wells which are completed during the survey year and the dollar amount to be reported is the accumulated cost of such wells from the time locations were made until the wells were completed as productive wells or abandoned after drilling was terminated because they were non-productive.

    PLEASE ROUND OFF TOTAL COSTS TO THE NEAREST DOLLAR.

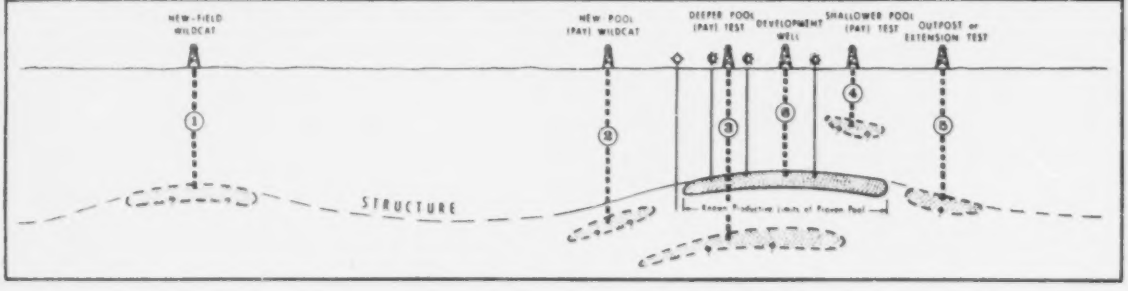
    In general, the elements contributing to reported cost are the expenditures for drilling dry holes and productive wells and equipping new productive wells through the "Christmas tree" installation. More specifically, these cost elements are the costs of labor, materials, supplies, water, fuels, power, and direct overhead (i.e., field, district, and regional), for such operations as site preparation, road building, erecting and dismantling derricks and drilling rigs, drilling hole, running and cementing casing, hauling materials, etc. Include the total cost of water, if purchased, or cost of water well, if drilled and chargeable to oil or gas well drilling operations. Well costs also include machinery and tool charges and rentals, and depreciation charges, where appropriate, for rigs and other equipment and facilities which will be used in drilling more than one well. Deduct the condition value of materials salvaged after use where appropriate.

    Do not report the cost of lease equipment such as artificial lift equipment and downhole lift equipment, flow lines, flow tanks, separators, etc., that are required for production. Do not reduce the costs by test well, bottom hole, or dry hole contributions.

    For OFFSHORE WELLS, include costs on fixed platforms and islands. Where facilities serve more than one well, the costs should be allocated to each well on the basis of the operator's best current estimate of the ultimate number of wells that will use the facility. Also, include cost expirations (depreciation or amortization) for company-owned mobile platforms, barges, and tenders.

AAPG and API Classification of Wells

OBJECTIVE OF DRILLING				INITIAL CLASSIFICATION ◇ WHEN DRILLING IS STARTED	FINAL CLASSIFICATION AFTER COMPLETION OR ABANDONMENT			
					SUCCESSFUL ● ◇ ◆		UNSUCCESSFUL ◇	
Drilling for a **new field** on a structure or in an environment never before productive				1. NEW-FIELD WILDCAT	NEW-FIELD DISCOVERY WILDCAT		DRY NEW-FIELD WILDCAT	
Drilling for a **new pool** on a structure or in a geological environment already productive	NEW POOL TESTS	Drilling **outside limits** of a proved area of pool		2. NEW-POOL (PAY) WILDCAT	NEW-POOL DISCOVERY WELLS (Sometimes extension wells)	NEW-POOL DISCOVERY WILDCAT (Sometimes an extension well)	DRY NEW-POOL TESTS	DRY NEW-POOL WILDCAT
		Drilling **inside limits** of proved area of pool	For a **new pool below** deepest proven pool	3. DEEPER POOL (PAY) TEST		DEEPER POOL DISCOVERY WELL		DRY DEEPER POOL TEST
			For a **new pool above** deepest proven pool	4. SHALLOWER POOL (PAY) TEST		SHALLOWER POOL DISCOVERY WELL		DRY SHALLOWER POOL TEST
Drilling for **long extension** of a partly developed pool				5. OUTPOST or EXTENSION TEST	EXTENSION WELL (Sometimes a new-pool discovery well)		DRY OUTPOST OR DRY EXTENSION TEST	
Drilling to exploit or **develop** a hydrocarbon accumulation discovered by previous drilling				6. DEVELOPMENT WELL	DEVELOPMENT WELL		DRY DEVELOPMENT WELL	



LAHEE CLASSIFICATION OF WELLS, AS APPLIED BY CSD

Tests drilled with the intent of being completed as hydrocarbon producers if found

NEW FIELD WILDCAT. A new field wildcat is located far from producing pools, and on a structure which has not produced before. In regions where local structure has little or no control on accumulation, these holes are generally at least 2 miles from the nearest productive area. Distance, however, is not the determining factor. The classification is based on the degree of risk assumed by the operator, and his intention to test a structure or stratigraphic condition not previously proved productive.

NEW-POOL (PAY) WILDCAT. A new-pool wildcat is located to explore for new pools on a structure already producing, but off to one side of the presently producing area. In some regions where local structure is almost negligible as a control, exploration holes of this group may be called "near wildcats." Such will usually be less than 2 miles from the nearest productive area. Sometimes a new-pool wildcat may extend a pool already partly developed, if so its final classification is an Extension.

DEEPER-POOL (PAY) TEST. A deeper-pool test is an exploratory hole located within the productive area of a pool, or pools, already partly or wholly developed. It is drilled below the deepest such pool penetrated by it to explore for deeper unknown prospects. Sometimes such a hole extends a deeper pool which has been partly developed in another part of the field.

SHALLOWER-POOL (PAY) TEST. A shallower-pool test is exploratory only if drilled in search of some new productive reservoir, unknown but possibly suspected from data secured from other wells. The test must be located within the productive area of a pool, or pools, previously developed. Sometimes such a test extends a shallower-pool partly developed elsewhere in the same field.

OUTPOST OR EXTENSION TEST. An outpost is located and drilled with the expectation of extending for a considerable distance the productive area of a partly developed pool. It is usually two or more locations distant from the nearest productive area. Sometimes an outpost discovers a new pool.

DEVELOPMENT WELL. A well drilled to exploit a hydrocarbon accumulation discovered by previous drilling.

Tests drilled without the intent of being completed for hydrocarbon production

STRATIGRAPHIC TEST. A drilling effort, geologically directed, to obtain information pertaining to a specific earth condition that might lead toward a possible accumulation of hydrocarbon. It must be drilled without the intention of being completed for hydrocarbon production. This classification includes tests identified as core tests by some operators.

SERVICE WELL. A well that is either drilled or completed for the purpose of supporting production of an existing field through observation, injection, water supply, etc.

MISCELLANEOUS. Any test drilled that does not fit one of the above classifications.

RECONCILIATION OF TOTAL 1984 U.S. WELLS AND FOOTAGE

QRDS vs. JAS

	Oil Wells		Gas Wells		Dry Holes		Total	
	No.	Footage	No.	Footage	No.	Footage	No.	Footage
QRDS-Exploratory Wells	2,421	12,067,375	1,500	9,166,316	11,156	55,268,103	15,077	76,501,794
QRDS-Development Wells	38,674	141,081,066	14,205	72,952,477	14,076	57,749,509	66,955	271,783,052
Total QRDS Wells	41,095	153,148,441	15,705	82,118,793	25,232	113,017,612	82,032	348,284,846
Adjustment Type I (Net)	-2,979	-3,263,227	-1,096	-2,423,204	-2,329	-1,731,968	-6,404	-7,418,399
Adjustment Type II (Net)	+860	+4,132,344	+374	+2,948,579	+348	+2,641,356	+1,582	+9,722,279
	38,976	154,017,558	14,983	82,644,168	23,251	113,927,000	77,210	350,588,726

Note: Adjustments Type I and Adjustments Type II are outlined on page 2.

SUMMARY OF SAMPLE DATA - 1984

EXPLORATORY WELLS

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS: OIL WELLS	GAS WELLS	DRY HOLES	AVERAGE DEPTH AND COST PER WELL: OIL	GAS	DRY
WELLS		8	4	55			
FOOTAGE	0 - 1,249	7,213	3,588	39,263	902	897	714
COSTS $		599,166	181,640	4,458,430	74,896	45,410	81,062
WELLS		25	23	152			
FOOTAGE	1,250 - 2,499	50,532	47,221	296,390	2,021	2,053	1,963
COSTS $		2,637,262	3,699,592	11,177,327	105,490	160,852	73,535
WELLS		75	34	330			
FOOTAGE	2,500 - 3,749	246,591	107,746	1,233,881	3,288	3,169	3,247
COSTS $		10,298,905	6,734,030	46,187,966	137,319	198,060	121,547
WELLS		180	71	700			
FOOTAGE	3,750 - 4,999	788,102	308,080	3,073,551	4,378	4,339	4,391
COSTS $		34,436,618	13,940,625	99,261,524	191,315	196,347	141,802
WELLS		206	129	895			
FOOTAGE	5,000 - 7,499	1,289,583	795,366	5,448,461	6,200	6,166	6,088
COSTS $		95,738,684	59,388,144	264,435,637	460,282	464,249	295,459
WELLS		134	110	509			
FOOTAGE	7,500 - 9,999	1,170,976	947,712	4,422,488	8,739	8,616	8,689
COSTS $		97,980,290	114,329,024	402,052,282	731,196	1,039,355	789,887
WELLS		98	87	306			
FOOTAGE	10,000 - 12,499	1,093,726	964,951	4,056,920	11,160	11,091	11,084
COSTS $		146,319,092	140,656,553	531,989,287	1,493,052	1,616,742	1,453,523
WELLS		38	57	206			
FOOTAGE	12,500 - 14,999	514,114	769,548	2,787,616	13,529	13,501	13,532
COSTS $		108,908,221	191,276,254	580,990,345	2,866,006	3,355,724	2,820,342
WELLS		5	22	101			
FOOTAGE	15,000 - 17,499	80,765	350,061	1,610,904	16,153	15,912	15,950
COSTS $		44,173,935	143,784,038	509,818,225	8,834,787	6,535,638	5,047,705
WELLS		2	8	32			
FOOTAGE	17,500 - 19,999	38,135	144,429	588,494	19,068	18,054	18,390
COSTS $		9,805,751	47,099,748	279,954,283	4,902,876	5,887,469	8,748,571
WELLS		--	4	7			
FOOTAGE	20,000 & OVER	--	86,015	159,963	--	21,504	22,852
COSTS $		--	73,438,594	68,890,585	--	18,359,649	9,841,512

SUMMARY OF SAMPLE DATA - 1984

DEVELOPMENT WELLS

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS: OIL WELLS	GAS WELLS	DRY HOLES	AVERAGE DEPTH AND COST PER WELL: OIL	GAS	DRY
WELLS		1,506	49	117			
FOOTAGE	0 - 1,249	1,426,106	41,033	97,959	948	837	837
COSTS $		93,159,672	2,468,243	2,880,340	61,859	50,372	24,618
WELLS		2,040	250	282			
FOOTAGE	1,250 - 2,499	3,425,034	466,234	519,573	1,679	1,865	1,842
COSTS $		214,314,498	22,006,319	17,324,690	105,056	88,025	61,435
WELLS		1,751	583	459			
FOOTAGE	2,500 - 3,749	5,582,151	1,870,579	1,480,015	3,188	3,209	3,224
COSTS $		299,434,667	80,858,628	38,561,500	171,008	138,694	84,012
WELLS		1,765	628	564			
FOOTAGE	3,750 - 4,999	7,904,732	2,704,729	2,480,546	4,479	4,307	4,398
COSTS $		413,679,635	132,583,758	75,967,556	234,379	211,129	134,694
WELLS		2,367	855	650			
FOOTAGE	5,000 - 7,499	14,578,831	5,250,092	3,985,415	6,159	6,140	6,131
COSTS $		950,040,345	325,588,504	144,323,050	401,369	380,805	222,035
WELLS		1,698	643	471			
FOOTAGE	7,500 - 9,999	14,647,441	5,529,883	4,044,773	8,626	8,600	8,588
COSTS $		1,139,600,387	512,025,710	221,741,427	671,143	796,308	470,789
WELLS		601	434	278			
FOOTAGE	10,000 - 12,499	6,621,882	4,853,291	3,100,786	11,018	11,183	11,154
COSTS $		832,657,031	670,974,099	299,255,391	1,385,453	1,546,023	1,076,458
WELLS		153	197	141			
FOOTAGE	12,500 - 14,999	2,033,791	2,662,461	1,892,573	13,293	13,515	13,423
COSTS $		397,333,918	538,650,144	280,718,789	2,596,954	2,734,265	1,990,913
WELLS		31	87	61			
FOOTAGE	15,000 - 17,499	495,687	1,370,275	961,028	15,990	15,750	15,755
COSTS $		118,296,621	402,096,233	215,312,396	3,816,020	4,621,796	3,529,712
WELLS		6	21	18			
FOOTAGE	17,500 - 19,999	145,388	384,563	329,568	18,174	18,313	18,309
COSTS $		49,866,380	131,554,294	74,777,394	6,233,298	6,264,490	4,154,300
WELLS		--	9	--			
FOOTAGE	20,000 & OVER	--	200,755	--	--	22,306	--
COSTS $		--	92,350,168	--	--	10,316,685	--

SUMMARY OF SAMPLE DATA - 1984

SINGLE-COMPLETION WELLS

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS		AVERAGE DEPTH AND COST PER WELL	
		OIL WELLS	GAS WELLS	OIL	GAS
WELLS		1,507	53		
FOOTAGE	0 - 1,249	1,427,884	44,621	948	842
COSTS $		93,424,778	2,649,883	61,994	49,998
WELLS		2,053	264		
FOOTAGE	1,250 - 2,499	3,457,738	494,796	1,684	1,874
COSTS $		216,449,975	24,247,135	105,431	91,845
WELLS		1,779	504		
FOOTAGE	2,500 - 3,749	5,669,195	1,797,851	3,187	3,188
COSTS $		302,660,450	79,829,604	170,130	141,542
WELLS		1,917	670		
FOOTAGE	3,750 - 4,999	8,575,953	2,695,726	4,474	4,322
COSTS $		442,100,953	140,957,779	230,621	210,355
WELLS		2,541	895		
FOOTAGE	5,000 - 7,499	15,659,239	5,501,984	6,163	6,147
COSTS $		1,030,094,461	347,749,469	405,389	388,547
WELLS		1,806	711		
FOOTAGE	7,500 - 9,999	15,591,718	6,136,428	8,631	8,631
COSTS $		1,218,595,188	584,745,925	674,748	822,427
WELLS		685	501		
FOOTAGE	10,000 - 12,499	7,560,659	5,605,320	11,037	11,188
COSTS $		950,952,350	786,963,592	1,388,252	1,570,786
WELLS		187	251		
FOOTAGE	12,500 - 14,999	2,493,260	3,391,893	13,333	13,514
COSTS $		495,428,959	720,279,707	2,649,353	2,869,640
WELLS		36	109		
FOOTAGE	15,000 - 17,499	576,452	1,720,336	16,013	15,783
COSTS $		162,470,556	545,880,271	4,513,071	5,008,076
WELLS		10	29		
FOOTAGE	17,500 - 19,999	183,523	528,992	18,352	18,241
COSTS $		59,672,131	171,654,042	5,967,213	6,160,484
WELLS		--	13		
FOOTAGE	20,000 & OVER	--	286,770	--	22,059
COSTS $		--	166,288,762	--	12,791,443

SUMMARY OF SAMPLE DATA - 1984

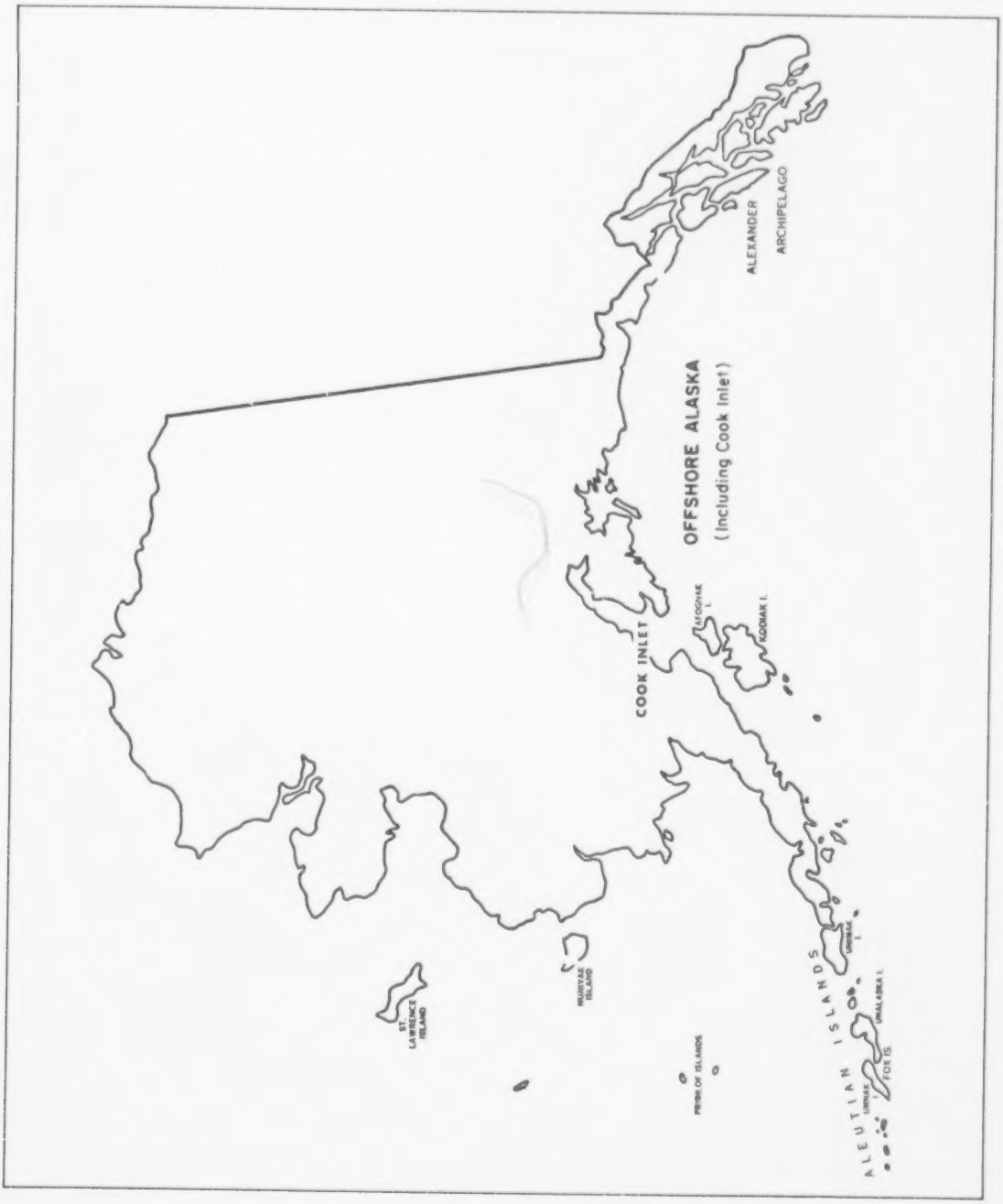
MULTIPLE-COMPLETION WELLS

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS: OIL WELLS	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS: GAS WELLS	AVERAGE DEPTH AND COST PER WELL: OIL	AVERAGE DEPTH AND COST PER WELL: GAS
WELLS	0 - 1,249	7	--	1,062	--
FOOTAGE		7,435	--	47,723	--
COSTS $		334,060	--		
WELLS	1,250 - 2,499	12	9	1,486	2,073
FOOTAGE		17,822	18,659	41,815	162,086
COSTS $		501,785	1,458,776		
WELLS	2,500 - 3,749	47	53	3,395	3,405
FOOTAGE		159,547	180,474	150,492	146,472
COSTS $		7,073,125	7,762,994		
WELLS	3,750 - 4,999	25	29	4,174	4,037
FOOTAGE		116,881	117,083	216,832	192,124
COSTS $		6,015,300	5,571,604		
WELLS	5,000 - 7,499	34	89	6,152	6,106
FOOTAGE		209,175	543,474	461,325	423,901
COSTS $		15,685,048	37,727,159		
WELLS	7,500 - 9,999	26	42	6,719	6,123
FOOTAGE		220,699	341,167	730,211	990,686
COSTS $		13,985,489	41,608,809		
WELLS	10,000 - 12,499	14	20	11,068	10,646
FOOTAGE		154,949	212,922	2,001,698	1,233,353
COSTS $		25,023,773	24,667,060		
WELLS	12,500 - 14,999	4	3	13,661	13,372
FOOTAGE		54,645	40,116	2,703,295	3,215,564
COSTS $		10,813,180	9,646,691		
WELLS	15,000 - 17,499	--	--	--	--
FOOTAGE		--	--	--	--
COSTS $		--	--		
WELLS	17,500 - 19,999	--	--	--	--
FOOTAGE		--	--	--	--
COSTS $		--	--		
WELLS	20,000 & OVER	--	--	--	--
FOOTAGE		--	--	--	--
COSTS $		--	--		

J.A.S. SAMPLE DISTRIBUTION 1980-1984

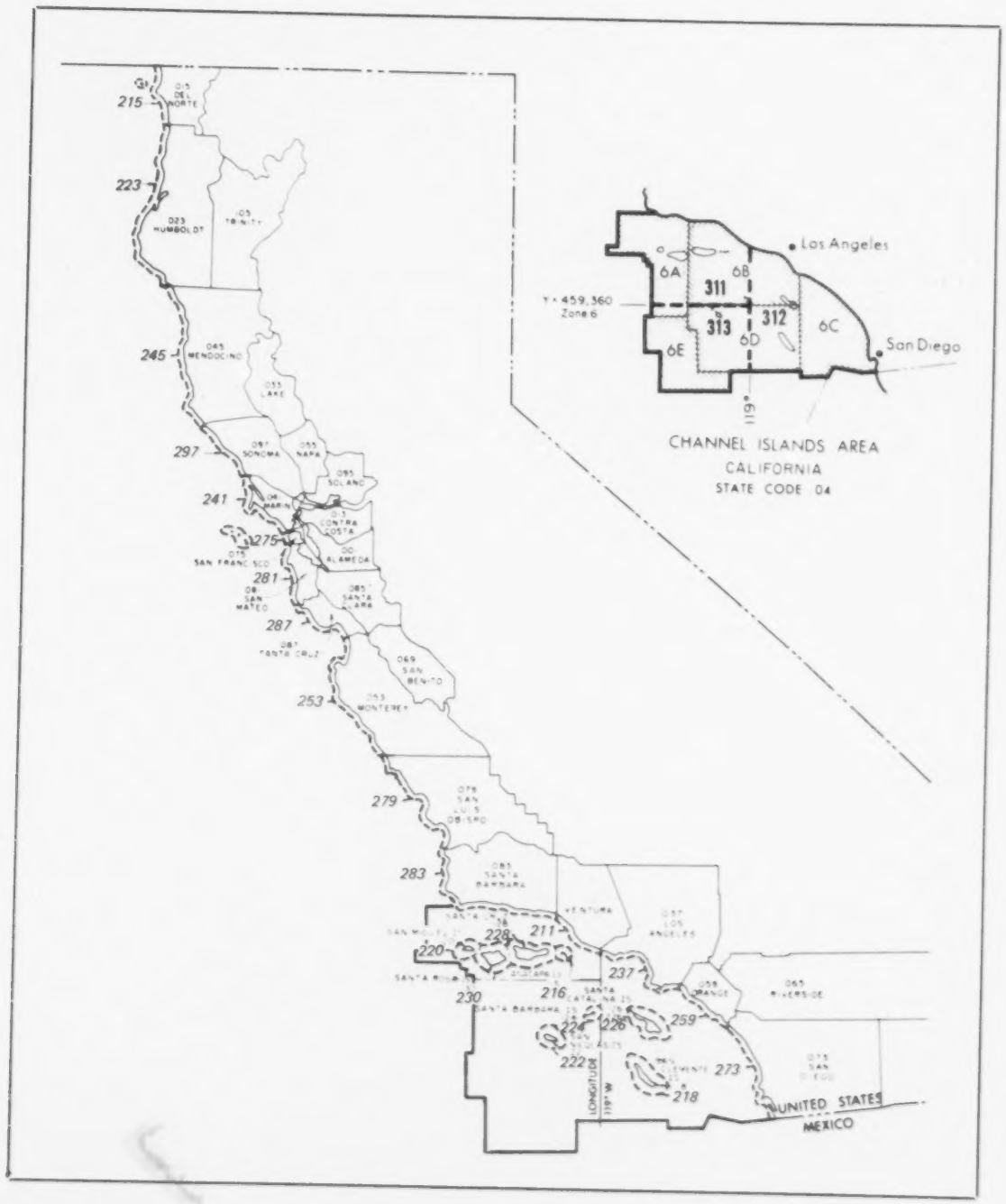
No. of Wells Drilled	1980		1981		1982		1983		1984	
	No. of Co's	No. of Wells	No. of Co's	No. of Wells	No. of Co's	No. of Wells	No. of Co's	No. of Wells	No. of Co's	No. of Wells
1-4	527	1,129	697	1,484	813	1,724	735	1,508	740	1,550
5-9	223	1,519	350	2,354	315	2,122	315	2,087	291	1,912
10-24	232	3,445	298	4,592	320	4,772	283	4,198	255	3,901
25-49	98	3,418	120	4,110	105	3,631	86	2,876	87	2,968
50-99	43	2,976	67	4,501	36	2,463	28	1,859	38	2,629
100 & over	38	11,667	38	13,403	40	11,828	28	10,110	26	10,483
Total	1,161	24,154	1,570	30,444	1,629	26,540	1,475	22,638	1,437	23,443

MAP I
SUBDIVISIONS OF ALASKA

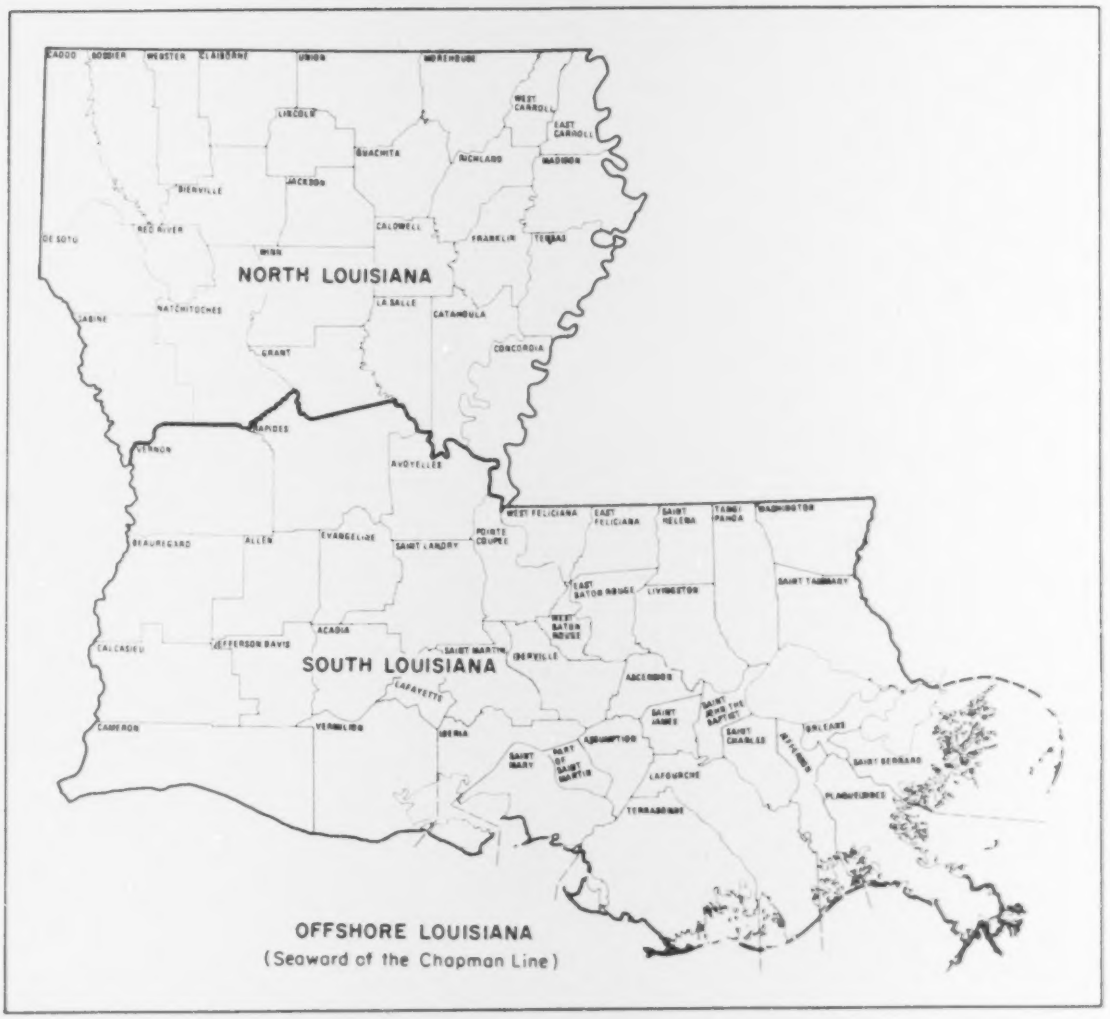


MAP II
SUBDIVISIONS OF CALIFORNIA

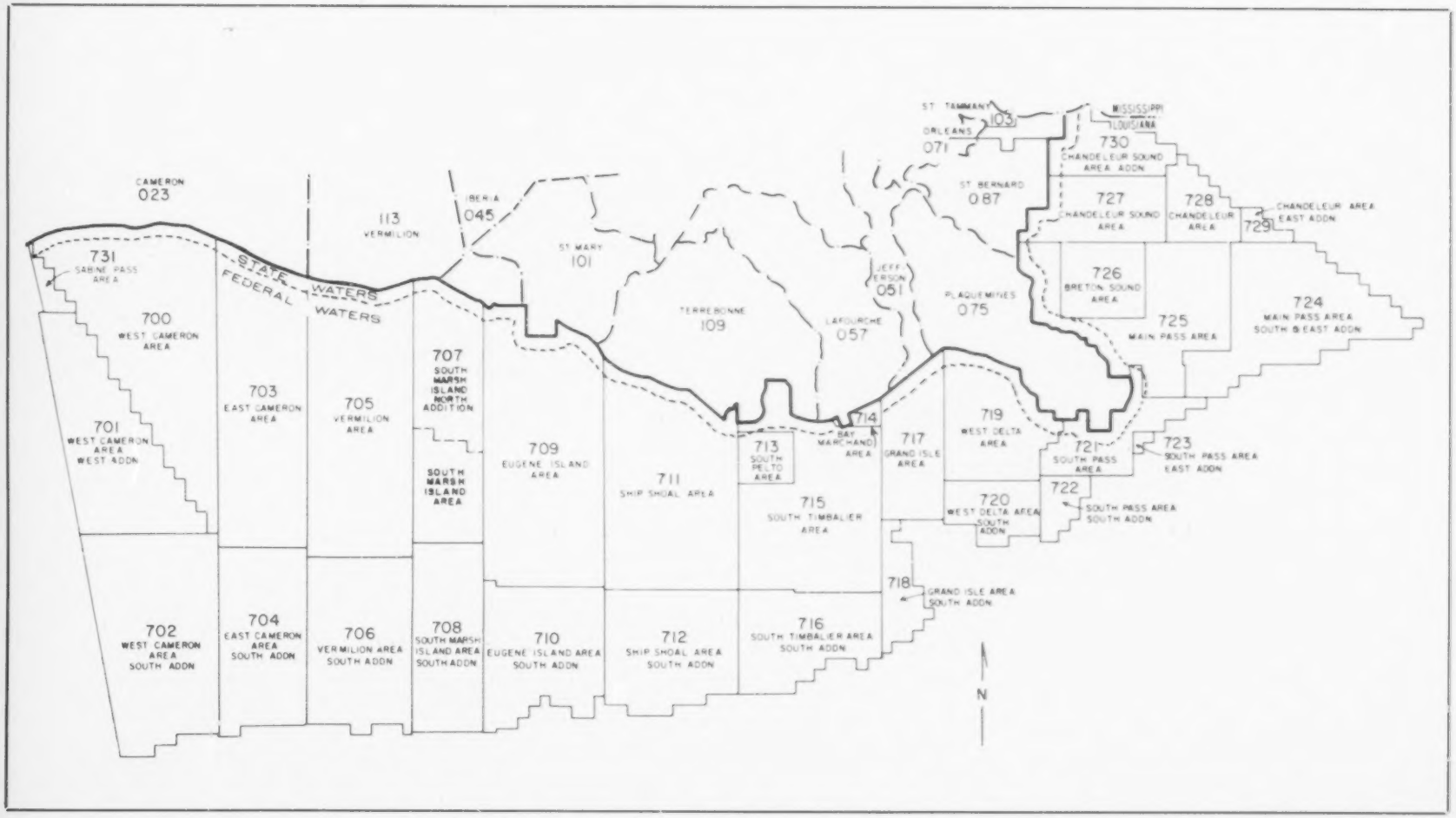
MAP III
CALIFORNIA OFFSHORE



MAP IV
SUBDIVISIONS OF LOUISIANA

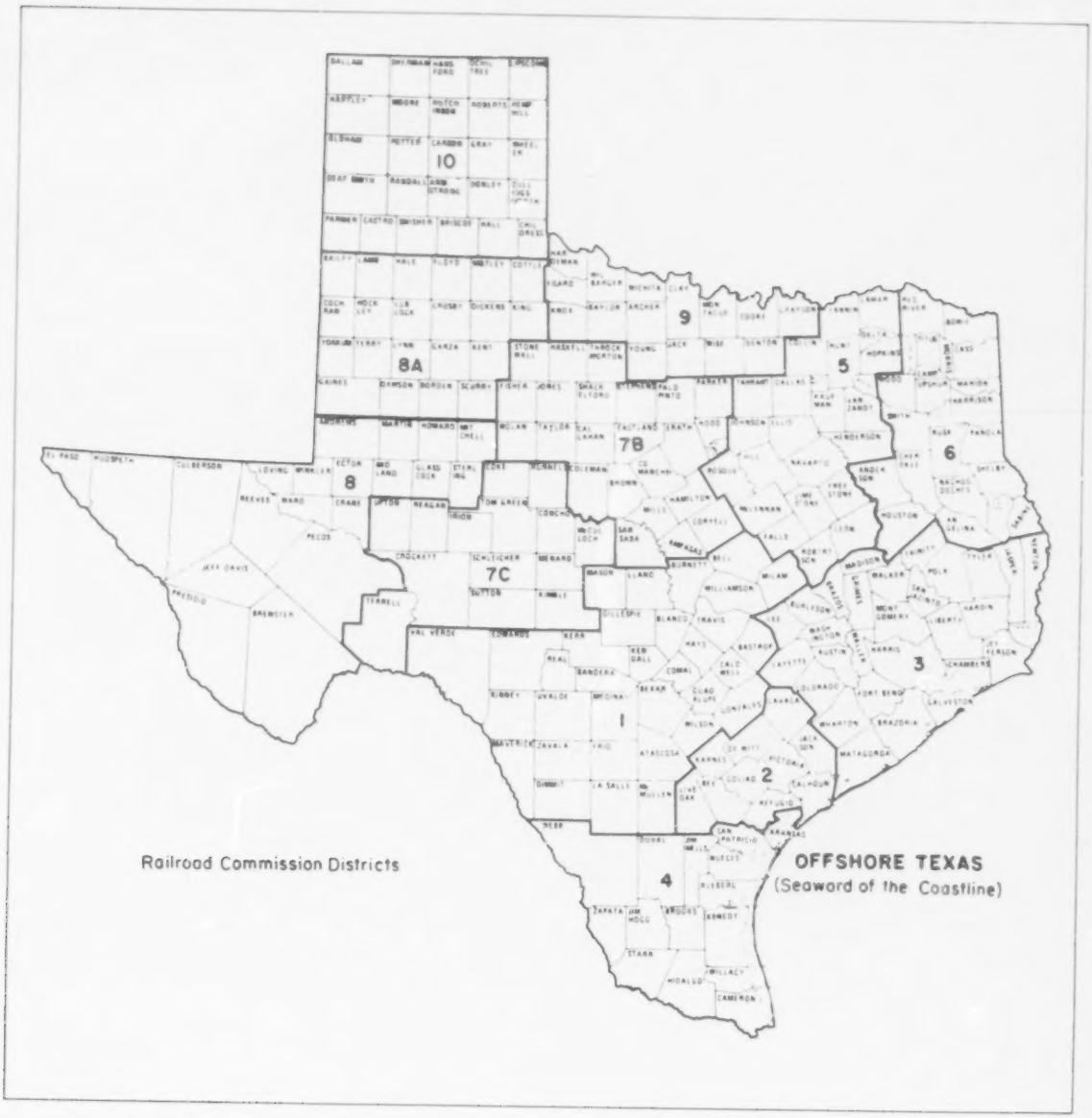


MAP V
LOUISIANA OFFSHORE


CAMERON 023
IBERIA 045
113 VERMILION
ST MARY 101
TERREBONNE 109
LAFOURCHE 057
JEFFERSON 051
PLAQUEMINES 075
ST BERNARD 087
ORLEANS 071
ST TAMMANY 103
MISSISSIPPI
LOUISIANA
STATE WATERS
FEDERAL WATERS
731 SABINE PASS AREA
700 WEST CAMERON AREA
701 WEST CAMERON AREA WEST ADDN
702 WEST CAMERON AREA SOUTH ADDN
703 EAST CAMERON AREA
704 EAST CAMERON AREA SOUTH ADDN
705 VERMILION AREA
706 VERMILION AREA SOUTH ADDN
707 SOUTH MARSH ISLAND NORTH ADDITION
SOUTH MARSH ISLAND AREA
708 SOUTH MARSH ISLAND AREA SOUTH ADDN
709 EUGENE ISLAND AREA
710 EUGENE ISLAND AREA SOUTH ADDN
711 SHIP SHOAL AREA
712 SHIP SHOAL AREA SOUTH ADDN
713 SOUTH PELTO AREA
714 BAY MARCHAND AREA
715 SOUTH TIMBALIER AREA
716 SOUTH TIMBALIER AREA SOUTH ADDN
717 GRAND ISLE AREA
718 GRAND ISLE AREA SOUTH ADDN
719 WEST DELTA AREA
720 WEST DELTA AREA SOUTH ADDN
721 SOUTH PASS AREA
722 SOUTH PASS AREA SOUTH ADDN
723 SOUTH PASS AREA EAST ADDN
724 MAIN PASS AREA SOUTH & EAST ADDN
725 MAIN PASS AREA
726 BRETON SOUND AREA
727 CHANDELEUR SOUND AREA
728 CHANDELEUR AREA
729 CHANDELEUR AREA EAST ADDN
730 CHANDELEUR SOUND AREA ADDN
N

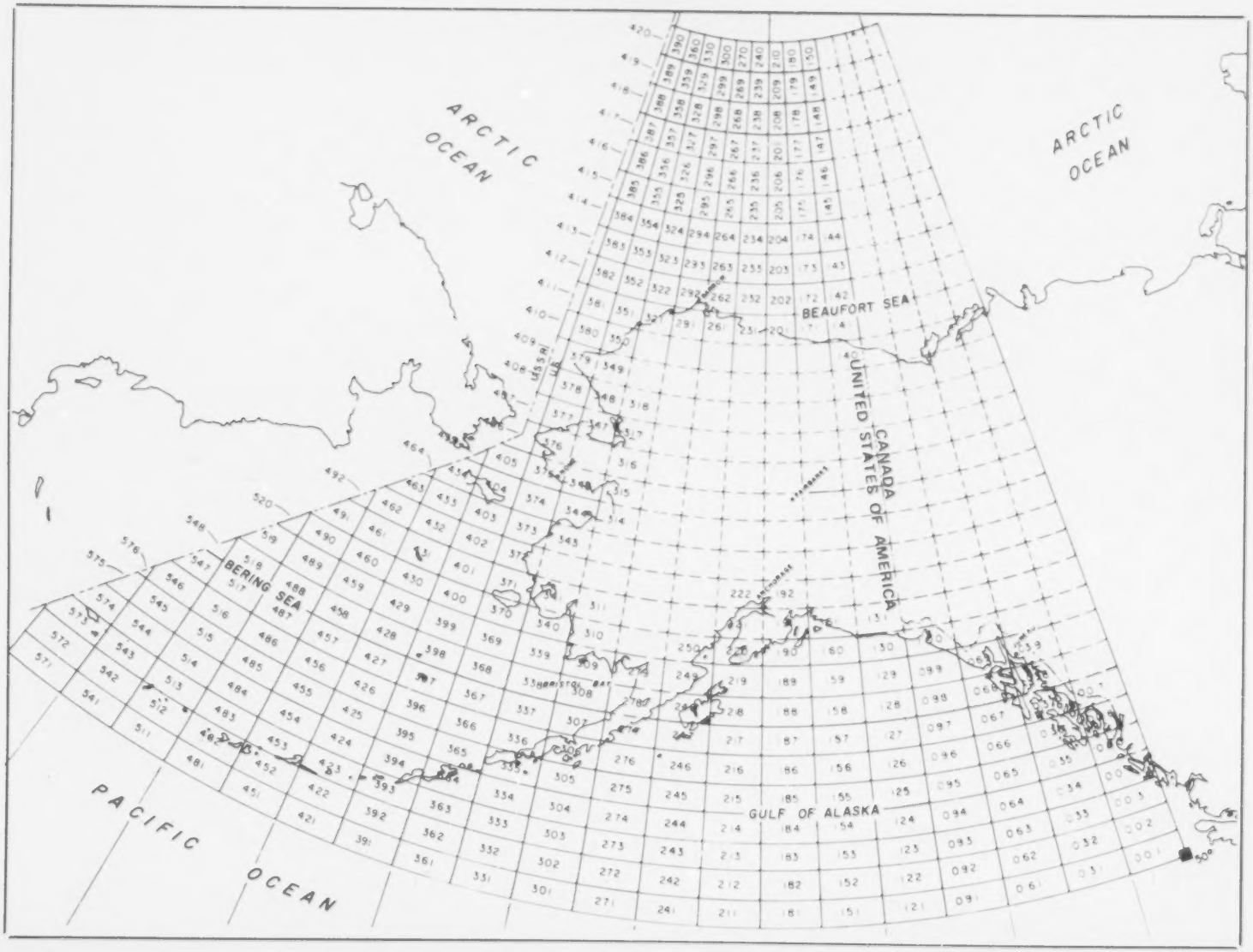
MAP VI
SUBDIVISIONS OF NEW MEXICO

MAP VII
SUBDIVISIONS OF TEXAS



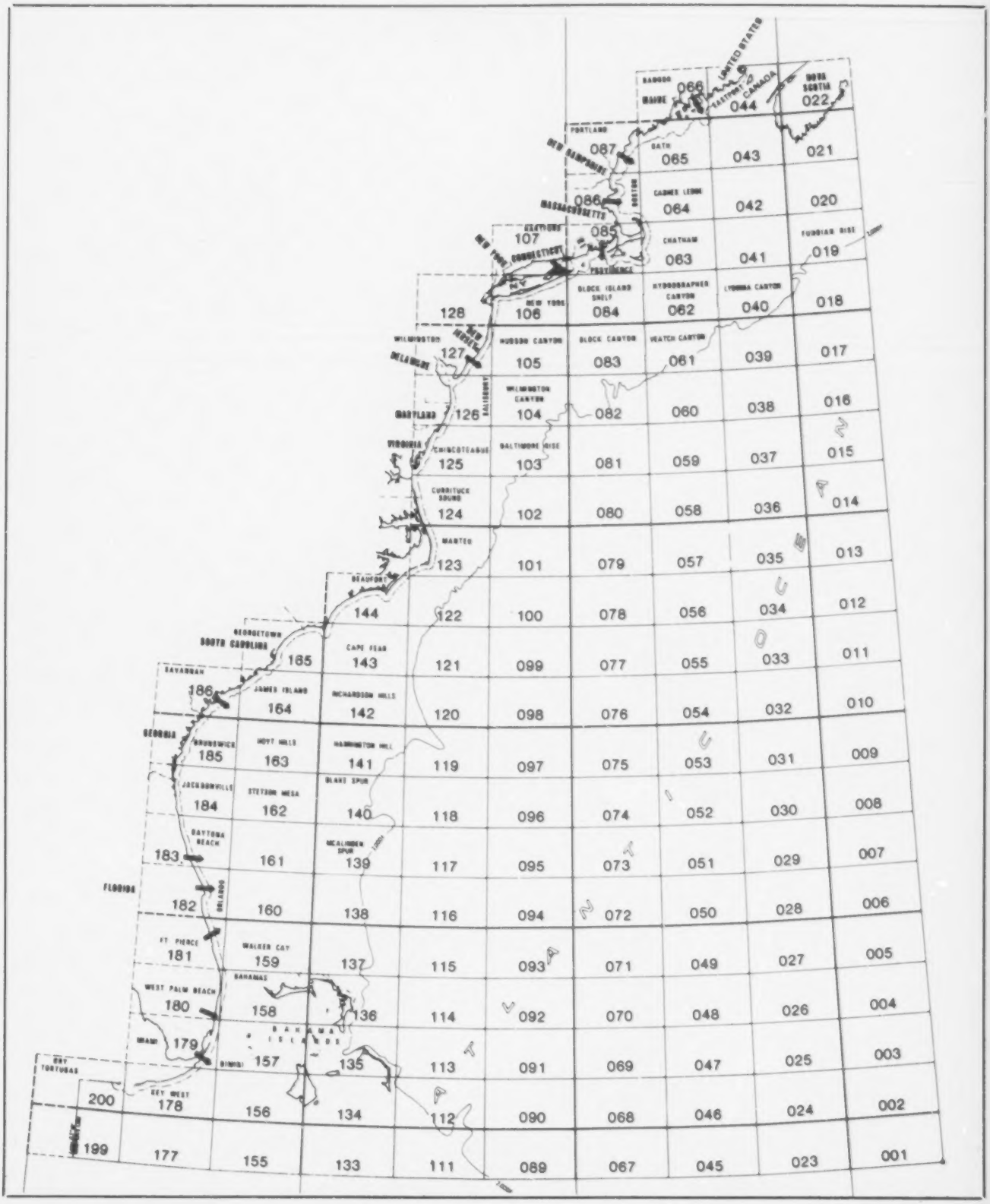
MAP VIII
TEXAS OFFSHORE

MAP IX
SUBDIVISIONS OF
OFFSHORE FEDERAL WATERS
ALASKA

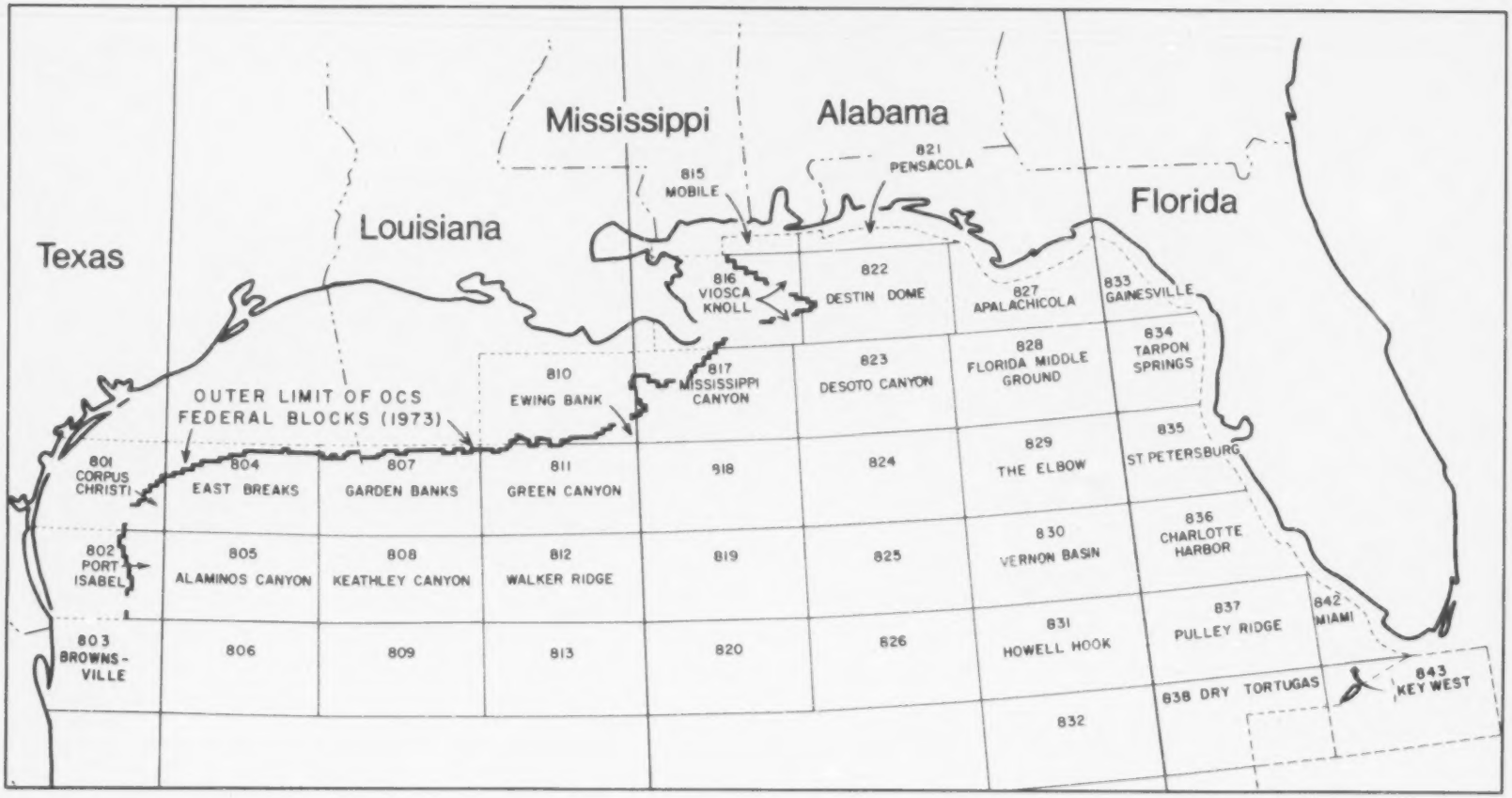


APPENDIX G, P.10

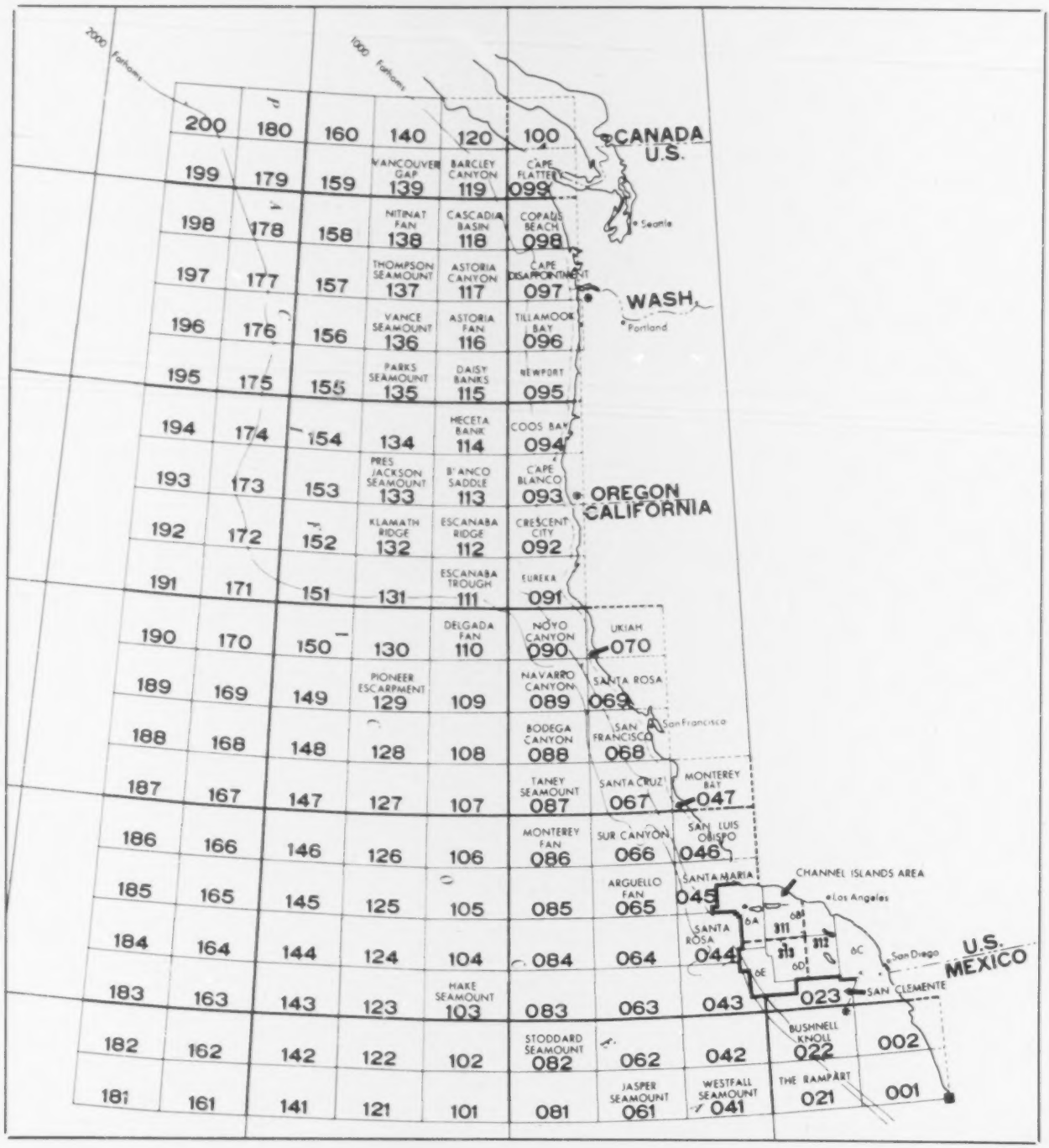
MAP X
SUBDIVISIONS OF OFFSHORE FEDERAL WATERS
ATLANTIC COAST



MAP XI
SUBDIVISIONS OF
OFFSHORE FEDERAL WATERS
GULF OF MEXICO—Northern



MAP XII
SUBDIVISIONS OF
OFFSHORE FEDERAL WATERS
PACIFIC COAST



JOINT ASSOCIATION SURVEY METHODOLOGY

API publishes annual estimates of drilling costs in the U.S. based on a sample of approximately 39 percent of all wells drilled and 61 percent of total drilling costs. The results, published in the Joint Association Survey (JAS), show estimated average drilling costs and total drilling expenditures by state (or other political region), by depth, and by well type. API has cost data only for those wells within the JAS sample. Drilling costs for wells not in the sample must be estimated using the information available from other sources on their depth, location, and well type, and the relationship of these variables to drilling cost as observed in the sample.

REGRESSION ESTIMATES OF WELL COSTS. The current JAS methodology, implemented in the 1978 survey, estimates these nonsample costs using standard multiple regression analysis. A "best fit" equation is estimated from the sample data for a given area, and this equation is then used to estimate the cost of nonsample wells based on their depth, location, and well type.

The particular functional form for the regression equation is:

(1) $$\log(\text{cost per foot}) = a + b\ 1/\text{depth} + c\ \text{depth} + d\ \text{depth}^2 + p_1 I_1 + \ldots + p_9 I_9$$

where depth is in thousands of feet and I_1 through I_9 are indicator variables for well type.[1]

Except for the 1/depth term, this equation is a polynomial, a functional form often used in regression analysis when an *a priori* functional form has not been specified. (Higher order polynomials were investigated but did not improve the fit noticeably). The 1/depth term helps to reflect the decreasing cost per foot observed in the shallower depths in some areas. (As depth increases, 1/depth gets smaller, so that this term's contribution to estimated cost per foot can be larger for shallower depths but quite small at greater depths).

The inclusion of indicator variables allows the level of costs to vary by well type. Since the above equation is in log form, this means that different well types are estimated to be proportional to one another, with the proportions being determined by the regression coefficients of the indicator variables. (When oil, gas, or dry data are regressed separately, fewer indicator variables are needed since there are fewer well types involved in each regression).

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[1]An indicator variable takes on the value 1 if the observation is a member of a certain class and 0 if it is not.
In the above equation, the nine indicator variables identify whether a well is one of the ten well types (for example, exploratory oil single completion, development gas multiple completion, exploratory dry, and so on). The tenth well type is identified when all indicator variables are 0.

Because equation (1) is in log form, estimates based on it will be biased downwards. Multiplying the original estimates by the correction factor

(2) $$\frac{\text{sum of actual costs for sample}}{\text{sum of estimated costs for sample}}$$

yields unbiased estimates.

PROCEDURE. Once the JAS sample data have been collected and verified, regression estimates for each geographic area are made using equations (1) and (2). In some areas, oil, gas, and dry wells are combined in one equation. When the sample is large enough, a separate equation is used for each of these three well categories. Inevitably, some nonsample wells fall outside the depth range of the sample. Since, statistically speaking, there is no reason to expect the regression estimates to be "reasonable" for these depths where there is no sample, some of these costs must be estimated independently based on costs in similar areas and previous year's data. This was necessary for approximately 2.9 percent of all unreported wells in 1984.